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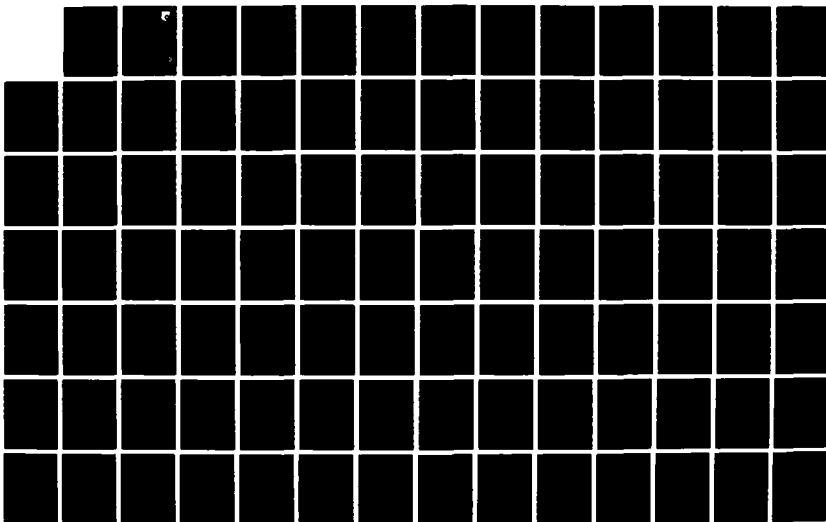
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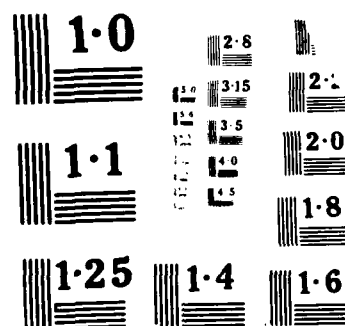
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PROCEEDINGS OF THE WORKSHOP ON THE ASSESSMENT OF  
CREW WORKLOAD MEASUREMENT METHODS, TECHNIQUES AND  
PROCEDURES

VOLUME II - Library References



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JUNE 1987

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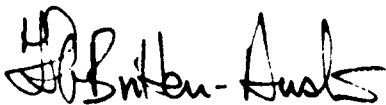
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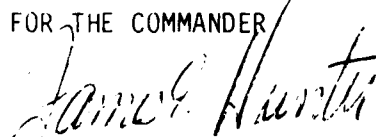


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## HOW TO USE THIS LIBRARY REFERENCE

This reference is the result of an analysis of a large sample of workload literature. It contains a) a Listing by Author of all References examined, b) a Listing of References by Article Number, and c) a Fact Matrix.

The Fact Matrix provides an index which identifies articles addressing measure reliability or validity and associates them with FAR 25 Appendix D definitions of Workload type. To use this reference simply find the workload type of interest at the top of the Matrix. Then search down the left side of the pages with the desired workload type for the measure of interest. To the right of the desired measure is a list of numbers across the Matrix page. These numbers are arranged under validity and reliability categories. If all articles pertaining to the chosen measure are desired, all reference numbers to the right apply. If only articles pertaining to a specific validity or reliability category are desired, only the numbers in the appropriate column apply.

Once you have found the workload type, measure, category, and validity/reliability of interest, use the numbers listed on the Matrix to search the numerically indexed "Listing of References by Article Number" for the full bibliographical citation of those articles. If more material is needed, search the "Listing of References by Author" to find additional references in the desired topic area.

Refer to the "Listing of References by Author" for a complete list of the articles contained in the library. The entries are arranged alphabetically by the first author's last name. The number to the left of the author's name is the corresponding article number as it appears in the library collection.

**ASSESSMENT FORM**

Lib. No. \_\_\_\_\_

**CHECK**

- A. Content (If none are checked QUIT)  
\_\_\_ 1 Workload Measurement Primary.  
\_\_\_ 2 Workload Measurement Secondary.

1st Init. \_\_\_\_\_

2nd Init. \_\_\_\_\_

**NUMBER OR NAME**

- B. Quality of Review  
\_\_\_ 1= Formal Review 2= Informal Review 3= No Reviewer

- C. Quality of Data (If not 1-3 QUIT)  
\_\_\_ 1= Experiment(s) 2= Case Study(s) 3= Theory/Review  
(Skip to F.) (Skip to H.)

- D. \_\_\_\_\_ Experiment Name if more than one (One per form)

- E. Highest Fidelity of Experiment  
\_\_\_ 1= Actual Flight 2= Simulator 3= Applied lab. 4= Basic lab.

**CHECK**

- F. Validities (If none are checked skip to G.)

- \_\_\_ 1 Content.  
\_\_\_ 2 Construct.  
\_\_\_ 3 Predictive. Independent  
Variables:

**MEMO**

- G. Reliabilities  
\_\_\_ 1 Test-retest.  
\_\_\_ 2 Split half.  
\_\_\_ 3 Alternate forms.  
\_\_\_ 4 Inter rater.

- H. Measure Types Dependent  
Subjective. Variables:

- \_\_\_ 1 NASA Bipolar Scale  
\_\_\_ 2 SWAT  
\_\_\_ 3 WCI/TE  
\_\_\_ 4 Modified Cooper Harper  
\_\_\_ 5 Interviews  
\_\_\_ 6 Surveys  
\_\_\_ 7 Other Subjective Measures

- Physiological.  
\_\_\_ 8 Body Fluid  
\_\_\_ 9 Brain Activity  
\_\_\_ 10 Heart  
\_\_\_ 11 Lung  
\_\_\_ 12 Muscle  
\_\_\_ 13 Skin  
\_\_\_ 14 Vision  
\_\_\_ 15 Voice  
\_\_\_ 16 Other Physiological Measures

- Performance.  
\_\_\_ 17 Primary Task  
\_\_\_ 17a Time  
\_\_\_ 17b Position  
\_\_\_ 17c Event  
\_\_\_ 18 Normal Secondary Task  
\_\_\_ 18a Time  
\_\_\_ 18b Position  
\_\_\_ 18c Event  
\_\_\_ 19 Artificial Secondary Task  
\_\_\_ 19a Time  
\_\_\_ 19b Position  
\_\_\_ 19c Event

I. Workload Types

- \_\_\_ 4a Degree of Mental.
- \_\_\_ 4b Duration of Mental.
- \_\_\_ 4c Degree of Physical.
- \_\_\_ 4d Duration of Physical.

J. Workload Functions

- \_\_\_ 1 Flight path control.
- \_\_\_ 2 Collision avoidance.
- \_\_\_ 3 Navigation.
- \_\_\_ 4 Communications.
- \_\_\_ 5 Operation and Monitoring.
- \_\_\_ 6 Command decisions.

K. Workload Factors (Task Demands)

- \_\_\_ 1 Normal Control.
- \_\_\_ 2 Normal Display.
- \_\_\_ 3 Normal Procedure.
- \_\_\_ 5 Normal Monitoring.
- \_\_\_ 8a Normal Communication.
- \_\_\_ 8b Normal Navigation.
- \_\_\_ 6 Non-normal Crew unavailability.
- \_\_\_ 7 Non-normal Automation.
- \_\_\_ 9 Non-normal Procedure.
- \_\_\_ 10 Non-normal Crew incapacitation.

USAF/FAA REVIEW OF WORKLOAD MEASUREMENT METHODS:  
VALIDITY, RELIABILITY, AND APPLICABILITY

February 24 and 25, 1987

LISTING OF REFERENCES  
BY AUTHOR

This is a listing of all assessed articles  
arranged alphabetically by first author's last name.

- 105- (1979). IFR PILOT MENTAL WORKLOAD RATING: BRIEFING MATERIAL. FLIGHT TRANSPORTATION LAB: MAN MACHINE LAB. - MIT,
- 142- (1980). FLIGHT CREWMEMBER WORKLOAD EVALUATION TRANSPORT CATEGORY AIRPLANES. U.S. DEPARTMENT OF TRANSPORTATION - FED.AVIAT.ADMI, FAA-ASF-80-5.
- 137- (1972). QUANTIFICATION OF MENTAL WORKLOAD IN SIMULATED S-3A TACCO TASKS. DOUGLAS AIRCRAFT COMPANY - TECHNICAL PROPOSAL, 72D-430T.
- 189- (1983). MENTAL WORKLOAD ASSESSMENT. DOUGLAS AIRCRAFT COMPANY - PROPOSAL 82D-128T, 82D-128T, 1-28.
- 321- ASSESSING PILOT WORKLOAD. AGARDOGRAPH - NO. 233 - NATO, NO. 233,
- 393- (1975). CREW COMPLEMENT ON MEDIUM/SHORT RANGE AIRCRAFT. SNOMAC-SNPL.
- 394- (1977). RESEARCH ON PILOT WORKLOAD ASSESSMENT. MCDONNELL DOUGLAS CO. - TECHNICAL PROPOSAL MDCE1720, MDC E1720,
- 797- AASMAN, JANS; MULDER, GIJSBERTUS; MULDER, LAMBERTUS J. M. OPERATOR EFFORT AND THE MEASUREMENT OF HEART RATE VARIABILITY. 1-29.
- 50- ACTON WILLIAM H.; CRABTREE MARK S. SIMONS, JOHN C., GOMER, FRANK E., ECKEL, STEVEN J. (1983). QUANTIFICATION OF CREW WORKLOAD IMPOSED BY COMMUNICATIONS-RELATED TASKS IN COMMERCIAL TRANSPORT AIRCRAFT. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 27TH MEETING, 239-243.
- 683- ACTON, WILLIAM; PEREZ, WILLIAM; REID, GARY (1986). ON THE DIMENSIONALITY OF SUBJECTIVE WORKLOAD. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 76-80.
- 288- ACTON, WILLIAM H.; CRABTREE, MARK S.; SIMONS, JOHN C. (1983). QUANTIFICATION OF CREW WORKLOAD IMPOSED BY COMMUNICATIONS-RELATED TASKS IN COMMERCIAL TRANSPORT AIRCRAFT. IEEE/SMC,
- 462- ACTON, WILLIAM H.; CRABTREE, MARK S.; SHINGLEDECKER, CLARK A. DEVELOPMENT OF A STANDARDIZED WORKLOAD METRIC EVALUATION METHODOLOGY.
- 558- ACTON, WILLIAM H.; CRABTREE, MARK S. (1985). WORKLOAD ASSESSMENT TECHNIQUES IN SYSTEM REDESIGN. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFER, V.2, 873-877.
- 233- ADAMS, JAMES J.; BERGERON, HUGH P. (1952). MEASURED VARIATION IN THE TRANSFER FUNCTION OF A HUMAN PILOT IN SINGLE-AXIS TASKS. NASA TECHNICAL NOTE D-1952, NASA D-1952, 1-56.

687- ADRION, JANEEN; (1986). THE EFFECTS OF EXPERIENCE AND TRAINING ON THE ASSESSMENT OF PILOT SUBJECTIVE WORKLOAD. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 619-623.

281- ALBANESE, R.A.; (1979). QUANTITATIVE MILITARY WORKLOAD ANALYSIS. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 69-72.

207- ALBANESE, RICHARD A.; (1977). MATHEMATICAL ANALYSIS AND COMPUTER SIMULATION IN MILITARY MISSION WORKLOAD ASSESSMENT. METHODS TO ASSESS WORKLOAD AGARD CONFERENCE PROCEED, NO. 216,

338- ALBERY, WILLIAM B.; WARD, SHARON L. (1985). THE EFFECT OF ACCELERATION STRESS ON HUMAN WORKLOAD. AAMRL - AIR FORCE AEROSPACE MEDICAL RESEARCH LAB, AAMRL-TR-85-039,

690- ALDRICH, THEODORE, B.; SZABO, SANDRA M. (1986). A METHODOLOGY FOR PREDICTING CREW WORKLOAD IN NEW WEAPON SYSTEMS. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 633-637.

341- ANTIN, JONATHAN F.; WIERWILLE, WALTER W. (1984). INSTANTANEOUS MEASURES OF MENTAL WORKLOAD: AN INITIAL INVESTIGATION. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1984, 28TH - 1984, 6-10.

765- ARBAK, CHRISTOPHER J.; SHEW, ROBIN L.; SIMONS, JOHN C. (1984). THE USE OF REFLECTIVE SWAT FOR WORKLOAD ASSESSMENT. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 28TH ANN. MEET.,

154- ASIALA, C. F.; (1978). PILOT WORKLOAD ASSESSMENT. MCDONNELL DOUGLAS ASTRONAUTICS PERFORMANCE REPORT, # MDC E1867, 1-19.

180- ASIALA, CARL F.; LOY, SUSAN L.; BULL, RICHARD F.; FITZGERALD, JOE A. (1981). PILOT WORKLOAD ASSESSMENT. DTIC - DEFENSE LOGISTICS AGENCY,

190- ASIALA, CARL F.; MILLER, JAMES. T.; LOY, SUSAN L.; WILPER, BARBARA L. (1982). ISRAELI MINISTRY OF DEFENSE (IMOD) PILOT WORKLOAD ASSESSMENT USERS REFERENCE GUIDE. MCDONNELL DOUGLAS CORPORATION - MDC E2546, MDC E5246,

710- AUDLEY, R.J.; ROUSE, W.; SENDERS, J. SHERIDAN, T. (1977). FINAL REPORT OF THE MATHEMATICAL MODELLING GROUP. PLENUM PRESS, 269-288.

741- AUSTIN, FRANK H.; GALLAGHER, THOMAS J.; BRICTON, CLYDE A.; POLIS, B. DAVID; FURRY, D. E.; LEWIS, CHARLES E. (1967). AEROMEDICAL MONITORING OF NAVY AVIATORS DURING AIRCRAFT CARRIER COMBAT OPERATION. AEROSPACE MEDICINE, JUNE, 593-596.

416- BAINBRIDGE, LISANNE; (1978). FORGOTTEN ALTERNATIVES IN SKILL AND WORKLOAD. ERGONOMICS, 21(3), 169-185.

198- BARNES, JOHN A.; (1977). USE OF EYE-MOVEMENT MEASURES TO ESTABLISH DESIGN PARAMETERS FOR HELICOPTER INSTRUMENT PANELS. METHODS TO ASSESS WORKLOAD AGARD CONFERENCE PROCEEDINGS, NO. 216,

684- BARNETT, BARBARA J.; WICKENS, CHRISTOPHER D. (1986). DISPLAY PROXIMITY IN MULTICUE INFORMATION INTERACTION. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 435-439.

668- BARNHART, WILLIAM; BILLINGS, CHARLES; COOPER, GEORGE; GILSTRAP, ROD; LAUBER, JOHN; ORLADY, HARRY; PUSKAS, BERT; STEPHENS, WARREN (1975). A METHOD FOR THE STUDY OF HUMAN FACTORS IN AIRCRAFT OPERATIONS. AMES RESEARCH CENTER, NASA TM X62,472, 1-42.

596- BARON, SHELDON; LANCRAFT, ROY (1980). PILOT/VEHICLE MODEL ANALYSIS OF VISUAL AND MOTION CUE REQUIREMENTS IN FLIGHT SIMULATION. NASA CONTRACTOR REPORT 3312, NASA-CR-3312,

758- BATEMAN S. C.; GOLDSMITH, R.; JACKSON, K. F.; SMITH, H. P. RUFFELL; MATTOCKS, VALERIE SUTTON (1970). HEART RATE OF TRAINING CAPTAINS ENGAGED IN DIFFERENT ACTIVITIES. AEROSPACE MEDICINE, VOL. 41 (4), 425-429.

31- BATEMAN, R. P.; ACTON, W. H.; CRABTREE, M. S. (1984). WORKLOAD AND PERFORMANCE: ORTHOGONAL MEASURES. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 678-679.

564- BATEMAN, ROBERT P.; SCHLYER, JOHN F.; LAMERS, GORDON W. (1986). THE USE OF EMBEDDED SECONDARY TASKS TO MEASURE WORKLOAD. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFER, 904.

777- BAUER, LANCE O.; GOLDSTIEN, ROBERT; STERN, JOHN (1986). EFFECTS OF INFORMATION PROCESSING DEMANDS ON PSYCHOLOGICAL RESPONSE PATTERNS. CENTER FOR ALCOHOL AND DRUG RELATED STUDIES, 1-35.

630- BEACH, A.J.; HILL, M.W. (1982). THE EFFECT OF EYE MOVEMENT RECORDER ON HEAD MOVEMENTS. DEFENCE AND CIVIL INST OF ENVIRONMENTAL MEDICINE, DCIEM82-R-25, 1-9.

90- BEATTY, JACKSON; (1982). TASK-EVOKED PUPILLARY RESPONSES, PROCESSING LOAD, AND THE STRUCTURE OF PROCESSING RESOURCES. PSYCHOLOGICAL BULLETIN, 91(2), 276-292.

791- BEATTY, JACKSON; (1976). PUPILLOMETRIC MEASUREMENT OF COGNITIVE WORKLOAD. DEPT. OF PSYCHOLOGY AT UCLA, 135-143.

792- BEATTY, JACKSON; (1978). PUPIL DILATION AS AN INDEX OF WORKLOAD. ALPHA CONFERENCE, 86-101.

490- BELL, PAUL A.; (1978). EFFECTS OF NOISE AND HEAT STRESS ON PRIMARY AND SUBSIDIARY TASK PERFORMANCE. HUMAN FACTORS, 20(6), 749-752.

125- BENEL, RUSSEL A.; COLES, MICHAEL G.H.; BENEL, DENISE C.R.; (1979). ELECTRODERMAL LABILITY AND CAPACITY FOR DUAL-TASK PERFORMANCE. PROCEEDINGS 15TH ANNUAL CONFERENCE ON MANUAL CNTRL, 1979 - 15TH, 301-319.



618- BENSON, ALAN J. HUDDLESTON, H.; F. & ROLFE, JOHN M. A PSYCHOPHYSIOLOGICAL STUDY OF COMPENSATORY TRACKING ON A DIGITAL DISPLAY. HUMAN FACTORS, OCT 1965, 457-472.

25- BERG, S. L.; SHERIDAN, T. B. (1984). MEASURING WORKLOAD DIFFERENCES BETWEEN SHORT-TERM MEMORY AND LONG-TERM MEMORY SCENARIOS IN A SIMULATED FLIGHT ENVIRONMENT. HUMAN FACTORS, 21(5),

144- BERG, SCOTT L.; SHERIDAN, THOMAS B. (1984). INTERIM REPORT: MEASURING WORKLOAD DIFFERENCES BETWEEN SHORT-TERM MEMORY AND LONG-TERM MEMORY SCENARIOS IN A SIMULATED. FLIGHT MAN-MACHINE SYSTEMS LABORATORY - MIT/NASA AMES R.C, NAG 2-227,

159- BERG, SCOTT L.; SHERIDAN, THOMAS B.; (1984). MEASURING WORKLOAD DIFFERENCES BETWEEN SHORT-TERM MEMORY AND LONG-TERM MEMORY SCENARIOS IN A SIMULATED FLIGHT ENVIRONMENT PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984,

358- BERG, SCOTT L.; SHERIDAN, THOMAS B. (1985). THE IMPACT OF PHYSICAL AND MENTAL TASKS ON PILOT MENTAL WORKLOAD. PROCEEDINGS 21ST ANNUAL CONF. ON MANUAL CONTROL, 21ST - 1985,

344- BERG, SCOTT L.; SHERIDAN, THOMAS B. (1984). MEASURING WORKLOAD DIFFERENCES BETWEEN SHORT-TERM MEMORY AND LONG-TERM MEMORY SCENARIOS IN A SIMULATED FLIGHT ENVIRONMENT PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984,

659- BERGERON, HUGH P.; (1968). PILOT RESPONSE IN COMBINED CONTROL TASKS. HUMAN FACTORS, 10(3), 277-282.

212- BEYER, R.; (1977). A STUDY ON PILOT'S WORKLOAD IN HELICOPTER OPERATION UNDER SIMULATED IMC EMPLOYING A FORWARD SENSOR. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEED, NO. 217,

632- BIFERNO, M. A.; (1985). MENTAL WORKLOAD MEASUREMENT: EVENT RELATED POTENTIALS AND RATINGS OF WORKLOAD AND FATIGUE. NASA, N85-26139, 1-19.

634- BIFERNO, MICHAEL; (1986). RESPIRATORY SINUS-ARRHYTHMIA: PHYSIOLOGICAL BASIS, QUANTATIVE METHODS, AND CLINICAL IMPLICATIONS. CARDIAC RESPIRATORY AND SOMATIC PSYCHOPHYSIOLOGY, 101-115.

748- BILLINGS, C. E.; GERKE, R. J.; CHASE, R. C.; EGGSPUEHLER J. J. (1973). STRESS AND STRAIN IN STUDENT HELICOPTER PILOTS. AEROSPACE MEDICINE, VOL. 44 (9), 1031-1035.

530- BIRD, KATHLEEN SUBJECTIVE RATING SCALES AS A WORKLOAD ASSESSMENT TECHNIQUE. NASA - AMES RESEARCH CENTER, NAG-217, 33-39.

609- BISSERET, A.; (1971). ANALYSIS OF MENTAL PROCESSES INVOLVED IN AIR TRAFFIC CONTROL. ERGONOMICS, 14(5), 565-570.

612- BITTERMAN, M. E.; SOLOWAY, E. (1946). THE RELATION BETWEEN FREQUENCY OF BLINKING AND EFFORT EXPENDED IN MENTAL WORK. JOURNAL OF EDUCATIONAL PSYCHOLOGY, 36, 134-136.

- 736- BLAKE, BRUNO; MELTON, CARLTON E.; BLAKE, CLIFFORD (1966). PHYSIOLOGICAL STRESS AND FATIGUE IN AERIAL MISSIONS FOR THE CONTROL OF FORREST FIRES. AEROSPACE MEDICINE, VOL. 37 (3), 221-227.
- 635- BLIX, ARNOLDUS SCHYTTE; STROMME, SIGMUND B. & URSIN, HOLGER (1974). ADDITIONAL HEART RATE- AN INDICATOR OF PSYCHOLOGICAL ACTIVATION. AEROSPACE MEDICINE, 1219-1222.
- 728- BOND, N. A.; (1983). HEART RATE AND MENTAL WORKLOAD. OFFICE OF NAVAL RESEARCH LONDON, ESN36-11, 277-282.
- 420- BORG, GUNNAR; (1978). SUBJECTIVE ASPECTS OF PHYSICAL AND MENTAL LOAD. ERGONOMICS, 21(3), 215-220.
- 482- BORLAND, R.G.; ROGERS, ALISON S. WORKLOAD OF PERSONNEL ENGAGED IN AIR DEFENSE. AGARD - SUSTAINED INTENSIVE AIR OPERATIONS: PHYSIO, AGARD-CP-338, 27.
- 667- BORTOLUSSI, M.R.; KANTOWITZ, B.H.; HART, S.G. (1986). MEASURING PILOT WORKLOAD IN A MOTION BASE TRAINER - A COMPARISON OF FOUR TECHNIQUES. APPLIED ERGONOMICS, 17(4), 278-283.
- 357- BORTOLUSSI, MICHAEL R.; KA2TTWITZ, BARRY H.; HART, SANDRA G. (1985). MEASURING PILOT WORKLOAD IN A MOTION BASE TRAINER: A COMPARISON OF FOUR TECHNIQUES. PROCEEDINGS 3RD BIENNIAL SYMPOSIUM ON AVIATION PSY, 3RD - 1985,
- 375- BORTOLUSSI, MICHAEL R.; (1983). BUILDING LEVELS OF WORKLOAD (BLOW). NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,
- 615- BOWMAN, JEFFREY S. & VONBECKH,; HARALD J. PHYSIOLOGIC AND PERFORMANCE MEASUREMENTS IN SIMULATED AIRBORNE COMBINED STRESS ENVIROMENTS. AVIATION, SPACE, AND ENVIROMENTAL MEDICINE, JUNE 1979, 604-608.
- 56- BOY, GUY A.; TESSIER, CLAUDE MESSAGE: AN EXPERT SYSTEM FOR AIRCRAFT CREW WORKLOAD ASSESSMENT. 207-222.
- 610- BOYCE, P.R.; (1974). SINUS ARRHYTHMIA AS A MEASURE OF MENTAL LOAD. ERGONOMICS, 17(2), 177-183.
- 112- BOYD, STEPHEN P.; THE USE OF CONJOINT ANALYSIS FOR INTERVAL SUBJECTIVE SCALING OF MENTAL WORKLOAD.
- 235- BOYD, STEPHEN P.; (1983). ASSESSING THE VALIDITY OF SWAT AS A WORKLOAD MEASUREMENT INSTRUMENT. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1983, 1983- 27TH, 124-128.
- 780- BRAUNE, ROLF; WICKENS, CHRISTOPHER D. (1984). INDIVIDUAL DIFFERENCES AND AGE-RELATED PERFORMANCE ASSESSMENT IN AVIATORS PART 2: INITIAL BATTERY VALIDATION. ENG.-PSY. RESEARCH LAB. FINAL TECH. REPORT, EPL83-7/NAMRL83, 1-77.

- 570- BRIEF, ARTHUR P.; RUDE, DALE E.; RABINOWITZ, SAMUEL (1983). THE IMPACT OF TYPE A BEHAVIOR PATTERN ON SUBJECTIVE WORK LOAD AND DEPRESSION. JOURNAL OF OCCUPATIONAL BEHAVIOR, 4, 157-164.
- 128- BROWN, E.L.; STONE, G.; PEARCE, W.E. (1975). IMPROVING COCKPITS THROUGH FLIGHT CREW WORKLOAD MEASUREMENT. 2ND ADVANCED AIRCREW DISPLAY SYMPOSIUM NAVAL AIR T, 1975, 1-7.
- 421- BROWN, I.D.; (1978). DUAL TASK METHODS OF ASSESSING WORKLOAD. ERGONOMICS, 21(3), 221-224.
- 605- BROWN, I.D.; POULTON, E.C. MEASURING THE SPARE "MENTAL CAPACITY" OF CAR DRIVERS BY A SUBSIDIARY TASK. ERGONOMICS, 35-40.
- 606- BROWN, I.D.; (1965). A COMPARISON OF TWO SUBSIDIARY TASKS USED TO MEASURE FATIGUE IN CAR DRIVERS. ERGONOMICS, 8, 467-471.
- 608- BROWN, I.D.; MEASURING THE SPARE MENTAL CAPACITY OF CAR DRIVERS BY A SUBSIDIARY AUDITORY TASK. ERGONOMICS, 247-250.
- 743- BROWN, WILLIAM K.; GORRE, JAMES D.; MEYER, JERRY F.; BUCKLEY, CLIFFORD J.; BROWN, CLAY A. (1969). AEROMEDICAL ASPECTS OF THE FIRST NONSTOP TRANSATLANTIC HELICOPTER FLIGHT: II. HEART RATE AND ECG CHANGES. AEROSPACE MEDICINE, JULY, 714-717.
- 576- BURKE, MICHAEL W.; GILSON, RICHARD D.; JAGINCINSKI, RICHARD J. (1980). MULTI-MODEL INFORMATION PROCESSING FOR VISUAL WORKLOAD RELIEF. ERGONOMICS, 23(10), 961-975.
- 794- BURNS, THOMAS VICTOR; (1972). PUPIL DIAMETER VARIATION IN A VISUAL INTERPRETATION TASK. NAVAL POSTGRADUATE SCHOOL, THESIS, 1-35.
- 616- BURTON, R.R., STORM, W.F.; JOHNSON, LW & LEVERETT JR., S.D. STRESS RESPONSE OF PILOTS FLYING HIGH PERFORMANCE AIRCRAFT DURING AERIAL COMBAT MANEUVERS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, APRIL 1977, 301-307.
- 747- BURTON, RUSSELL R.; SHAFFSTALL, ROBERT M. (1980). HUMAN TOLERANCE TO AERIAL COMBAT MANEUVERS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL 51 (7), 641-648.
- 473- BUTTERBAUGH, LARRY; WARNER, DEBRA; LOVERING, PETER; HERRON, SAM (1981). PILOT WORKLOAD: A SURVEY OF OPERATIONAL PROBLEMS. AIR FORCE WRIGHT AERONAUTICAL LABORATORIES, AFWAL-TR-81-301,
- 244- BUTTERBAUGH, LARRY C.; (1982). COCKPIT DESIGN FOR THE FUTURE AND CHALLENGES TO WORKLOAD MEASUREMENT. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 162-191.
- 275- BUTTERGAUGH, LARRY; WARNER, DEBRA; LOVERING, PETER; HERRON, SAM (1980). PILOT WORKLOAD: A SURVEY OF OPERATIONAL PROBLEMS. DEFENSE TECHNICAL INFORMATION CENTER - DEFENSE LOG, AD-A107758, 1-189.

621- CALDWELL, CHARLES D.; (1984). THE EFFECTS OF HEAT AND COLD ON ATTENTION. WORKLOAD ANNUAL PROGRESS REPORT, N84-17858, 1-46.

600- CALLAN, WILLIAM M.; HOUCK, JACOB A.; DICARLO, DANIEL J. (1974). SIMULATION STUDY OF INTRACITY HELICOPTER OPERATIONS UNDER INSTRUMENT CONDITIONS TO CATEGORY I MINIMUMS. NASA TECHNICAL NOTE 7786, NASA-TN-D-7786,

578- CALZAROSSA, MARIA; SERAZZI, GUISEPPE (1985). A CHARACTERIZATION OF THE VARIATION IN TIME OF WORKLOAD ARRIVAL PATTERNS. IEEE TRANSACTIONS ON COMPUTERS, C-34(2), 156-162.

285- CANNINGS, R.; (1979). SPEECH PATTERNS AND AIRCREW WORKLOAD. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 115-128.

520- CANNINGS, R.; BORLAND, R.G.; HILL, L.E.; NICHOLSON, A.N. (1977). PITCH AND FORMANT ANALYSIS OF THE VOICE IN THE INVESTIGATION OF PILOT WORKLOAD. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A5.

569- CAPLAN, ROBERT D.; COBB, SIDNEY; FRENCH, JOHN R.P. JR. (1979). WHITE COLLAR WORK LOAD AND CORTISOL: DISRUPTION OF A CIRCADIAN RHYTHM BY JOB STRESS ?. JOURNAL OF PSYCHOMATIC RESEARCH, 23, 181-192.

16- CASALI, J. G.; WIERWILLE, W. W. (1984). ON THE MEASUREMENT OF PILOT PERCEPTUAL WORKLOAD: A COMPARISON OF ASSESSMENT TECHNIQUES ADDRESSING SENSITIVITY AND INTRUSION ERGONOMICS, 27(10), 1033-1050.

15- CASALI, J. G.; WIERWILLE, W. W. COMMUNICATIONS-IMPOSED PILOT WORKLOAD: A COMPARISON OF SIXTEEN ESTIMATION TECHNIQUES. VIRGINIA POLYTECHNIC INSTITUTE, 223-235.

161- CASALI, JOHN G.; WIERWILLE, WALTER W. (1983). COMMUNICATION-IMPOSED PILOT WORKLOAD: A COMPARISON OF SIXTEEN ESTIMATION TECHNIQUES. PROCEEDINGS OF 2ND ANN. SYMPOSIUM ON AVIATION PSYC, 1983,

175- CASALI, JOHN G.; WIERWILLE, WALTER W. (1983). A COMPARISON OF RATING SCALE, SECONDARY-TASK, PHYSIOLOGICAL, AND PRIMARY-TASK WORKLOAD ESTIMATION TECHNIQUES IN A SIMULATED HUMAN FACTORS, 25(6), 623-641.

540- CASALI, JOHN G.; WIERWILLE, WALTER W. (1983). A COMPARATIVE EVALUATION OF RATING SCALE, SECONDARY TASK, PHYSIOLOGICAL, AND PRIMARY TASK WORKLOAD ESTIMATION TECHNIQUES THE SENSITIVITY & INTRUSION OF MWL TECHNIQUE. IN PILOTI, IEOR # 8309, 147-189.

538- CASALI, JOHN G.; WIERWILLE, WALTER W. (1983). EFFECTS ON FOURTEEN WORKLOAD METRICS OF VARIATIONS IN PILOT WORKLOAD IN A SIMULATED FLIGHT EMPHASIZING PERCEPTUAL ACTIVITY THE SENSITIVITY & INTRUSION OF MWL EST. TECHNIQUE. IN, IEOR # 8309, 63-103.

642- CEDER, NAVISHAI; (1977). DRIVERS EYE MOVEMENTS AS RELATED TO ATTENTION IN SIMULATED TRAFFIC FLOW CONDITIONS. HUMAN FACTORS, (96), 571-581. 625- CHIEN, R.T.; (1982). MULTILEVEL SEMANTIC ANALYSIS AND PROBLEM SOLVING IN FLIGHT DOMAIN. NASA, 1-106.

499- CHIEN, ROBERT T.; (1977). ON THE IMPORTANCE OF PROGRAM INTELLIGENCE TO ADVANCED AUTOMATION IN FLIGHT OPERATIONS. AIR FORCE AVIONICS LAB TECHNICAL REPORT, AFAL-TR-77-20, 1-41.

95- CHILDRESS, MARY E.; HART, SANDRA G.; BORTOLUSSI, MICHAEL R. (1982). THE RELIABILITY AND VALIDITY OF FLIGHT TASK WORKLOAD RATINGS. PROCEEDINGS OF HUMAN FACTORS SOCIETY 26TH ANN.MEET, 1982-26TH,

376- CHILDRESS, MARY E.; (1983). AN OPERATOR-TASK INTERACTIVE SYSTEMS APPROACH TO THE STUDY OF WORKLOAD AND PERFORMANCE. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,

153- CHILES, W. DEAN; ALLUISI, EARL A. (1979). ON THE SPECIFICATION OF OPERATOR OR OCCUPATIONAL WORKLOAD WITH PERFORMANCE-MEASUREMENT METHODS. HUMAN FACTORS, 21(5), 515-528.

150- CHILES, W. DEAN; JENNINGS, ALAN E.; ALLUISI, EARL A. (1979). MEASUREMENT AND SCALING OF WORKLOAD IN COMPLEX PERFORMANCE. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE 1979, APRIL, 376-381.

221- CHILES, W. DEAN; (1977). OBJECTIVE METHODS FOR DEVELOPING INDICES OF PILOT WORKLOAD. U.S. DEP.OF TRANS. FEDER.AVIATION ADMIN./AVIAT MED, 1-43.

617- CLARK, DALE A.; ARNOLD, E. L.; FOULDS. E. L.; BROWN, D. M.; EASTMEAD, D. R.; PARRY, E. M. (1975). SERUM URATE AND CHOLESTEROL LEVELS IN AIR FORCE ACADEMY CADETS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, AUGUST, 1044-1048.

395- CLAUZEL, J.S.; STONE, G. (1983). FLIGHT CREWS AND ADVANCED TECHNOLOGY COCKPITS - THE SAFETY CHALLENGE. FLIGHT SAFETY FOUNDATION 36TH INTERNATIONAL AIR SA, DOUGLAS 7380,

236- COLLE, HERBERT A.; DEMAIO, JOSEPH (1977). MEASUREMENT OF ATTENTIONAL CAPACITY LOAD USING DUAL-TASK PERFORMANCE OPERATING CURVES. AIR FORCE HUMAN RESOURCES LABORATORY, AD A055690, 1-13.

627- CONNOR, SIDNEY A.; WIERWILLE, WALTER W (1983). COMPARATIVE EVALUATION OF TWENTY PILOT WORKLOAD ASSESSMENT MEASURES USING A PSYCHOMOTOR TASK IN A MOVING BASE AIRCRAFT SIMULATOR NASA, N83-18702, 1-39.

88- COOPER, R.; MCCALLUM W.C.; NEWTON, P. ; PAPA KOSTOPOULOS, D.; POCOCK, P.V.; WARREN, W.J. (1977). CORTICAL POTENTIALS ASSOCIATED WITH THE DETECTION OF VISUAL EVENTS. SCIENCE, 196, 74-77.

779- CORDES, COLLEEN; (1985). MILITARY WASTE: THE HUMAN FACTOR. AMERICAN PSYCHOLOGICAL ASSOCIATION, 1-4.

250- COSGROVE, M.A. LT. CDR; (1982). WORKLOAD REQUIREMENTS OF THE HELICOPTER ANTISUBMARINE WARFARE MISSION. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 26-28.

60- COTE, DAVID O.; KRUEGER, GERALD P.; SIMMONS, RONALD R. HELICOPTER COPILOT WORKLOAD DURING NAP-OF-THE-EARTH FLIGHT. 289-298.

439- COURTRIGHT, JOHN F.; KUPERMAN, GIL (1984). USE OF SWAT IN USAF SYSTEM T&E. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1984, 28TH - 1984, 700-703.

41- CRABTREE, M. S.; BATEMAN, R. P.; ACTON, W. H. (1984). BENEFITS OF USING OBJECTIVE AND SUBJECTIVE WORKLOAD MEASURES. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 950-953.

396- CRABTREE, MARK S.; (1975). HUMAN FACTORS EVALUATION OF SEVERAL CONTROL SYSTEM CONFIGURATIONS INCLUDING WORK LOAD SHARING WITH FORCE WHEEL STEERING TECHNICAL REPORT - AIR FORCE FLIGHT DYNAMICS LABOR, AFFDL-TR-75-43,

543- CRABTREE, MARK S.; SHINGLEDECKER, CLARK A. (1983). SECONDARY TASK WORKLOAD ASSESSMENT METHODOLOGY. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFER, V.2, 1086-1089.

603- CRABTREE, MARK S.; SPICUZZA, RONALD J. (1981). EVALUATION OF IMBEDDED RADIO COMMUNICATIONS ACTIVITIES AS SECONDARY TASKS FOR OBJECTIVE ASSESSMENT OF AIRCREW WORKLOAD I NAECON - NATIONAL AEROSPACE AND ENGINEERING CONF, NAECON - 1981, 1349-1352.

280- CRAWFORD, B.M.; (1979). WORKLOAD ASSESSMENT METHODOLOGY DEVELOPMENT. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 55-68.

234- CRAWFORD, BILLY M.; PEARSON, WILLIAM H.; HOFFMAN, MARK S. (1977). MULTIPURPOSE DIGITAL SWITCHING AND FLIGHT CONTROL WORKLOAD. AEROSPACE MEDICAL RESEARCH LAB - AERO.MED.DIVISION, 1-37.

65- CROMBIE, ROBERT B.; (1982). REFLECTIONS ON THE EFFECTS OF VEHICLE DYNAMICS AND TASK DIFFICULTY ON COOPER-HARPER PILOT OPINION RATINGS, TASK PERFORMANCE PROCEEDINGS OF THE WORKSHOP ON FLIGHT TESTING TO I, MAY 1982, 102-113.

707- CURRY, RENWICK; JEX, H.; LEVISON, W. (1977). FINAL REPORT OF CONTROL ENGINEERING GROUP. PLENUM PRESS, 235-254.

702- CURRY, RENWICK; (1977). MENTAL LOAD IN MONITORING TASKS. PLENUM PRESS, 117-124.

572- DAMOS, DIANE; (1985). THE RELATION BETWEEN THE TYPE BEHAVIOR PATTERN, PACING, AND SUBJECTIVE WORKLOAD UNDER SINGLE- AND DUAL-TASK CONDITIONS. HUMAN FACTORS, 27(6), 675-680.

723- DAMOS, DIANE; (1985). THE RELATIONSHIP BETWEEN TYPE A BEHAVIOR PATTERN, PACING AND SUBJECTIVE WORKLOAD UNDER SINGLE/DUAL TASK CONDITION HUMAN FACTORS, 27(6), 675-680.

148- DAMOS, DIANE L.; LINTERN, GAVAN (1980). A COMPARISON OF THE PREDICTIVE VALIDITIES OF SINGLE- AND DUAL-TASK MEASURES. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980,- 24TH, 245-248.

331- DAMOS, DIANE L.; (1984). CLASSIFICATION SYSTEMS FOR INDIVIDUALS DIFFERENCES IN MULTIPLE-TASK PERFORMANCE AND SUBJECTIVE ESTIMATES OF WORKLOAD. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984,

377- DAMOS, DIANE L.; (1983). EXAMINING THE RELATION BETWEEN SUBJECTIVE ESTIMATES OF WORKLOA AND INDIVIDUAL DIFFERENCES IN PERFORMANCE. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,

577- DAMOS, DIANE L.; (1984). INDIVIDUAL DIFFERENCES IN MUTIPLE-TASK PERFORMANCE AND SUBJECTIVE ESTIMATES OF WORKLOAD. PERCEPTUAL AND MOTOR SKILLS, 59, 567-580.

566- DEIVANAYAGAM, S.; AYOUB, M.M. (1979). PREDICTION OF ENDURANCE TIME FOR ALTERNATING WORKLOAD TASKS. ERGONOMICS, 22(3), 279-290.

115- DERRICK, WILLIAM L.; (1981). THE RELATIONSHIP BETWEEN PROCESSING RESOURCE AND SUBJECTIVE DIMENSIONS OF OPERATOR WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1981, 1981 - 25TH, 532-536.

135- DERRICK, WILLIAM L.; WICKENS, CHRISTOPHER D. (1984). A MULTIPLE PROCESSING RESOURCE EXPLANATION OF THE SUBJECTIVE DIMENSIONS OF OPERATOR WORKLOAD. DTIC - DEFENSE LOGISTICS AGENCY - TECHNICAL REPORT,

156- DERRICK, WILLIAM L.; (1983). EXAMINATION OF WORKLOAD MEASURES WITH SUBJECTIVE TASK CLUSTERS. PROCEEDINGS HUMAN FACTORS SOCIETY, 27TH, 134-138.

688- DERRICK, WILLIAM L.; MCCLOY, THOMAS M.; MARSHAK, WILLIAM P.; SEILER, GRETCHEN L.; REDDICK, PAMELA A. (1986). THE EFFECT OF SPATIAL ABILITY ON THE DEMAND FOR SPATIAL PROCESSING RESOURCES. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 624-627.

339- DETRO, STEPHEN D.; (1985). SUBJECTIVE ASSESSMENT OF PILOT WORKLOAD IN THE ADVANCED FIGHTER COCKPIT. PROCEEDINGS 3RD SYMPOSIUM ON AVIATION PSYCHOLOGY, 3RD - 1985,

75- DONCHIN E.; COHEN, L. (1967). AVERAGED EVOKED POTENTIALS AND INTRAMODALITY SELECTIVE ATTENTION. ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOG, 22, 527-546.

122- DONCHIN, EMANUEL; (1978). BRAIN ELECTRICAL ACTIVITY AS AN INDEX OF MENTAL WORKLOAD IN MAN-MACHINE SYSTEMS. PROCEEDINGS OF ALPA ANNUAL CONFERENCE, 35-48.

677- DREW, G.C.; (1940). AN EXPERIMENTAL STUDY OF MENTAL FATIGUE. DEP'T OF EXPERIMENTAL PSYCHOLOGY, FPRC 227, 1-23.

251- DUNN, RICHARD S.; (1982). ARMY WORKLOAD RESEARCH AND DEVELOPMENT REQUIREMENTS. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 20-25.

114- ECKEL, J. STEVEN; CRABTREE, MARK S. (1983). ANALYTIC AND SUBJECTIVE ASSESSMENTS OF OPERATOR WORKLOAD IMPOSED BY COMMUNICATIONS TASKS IN TRANSPORT AIRCRAFT. PROCEEDINGS 1983 AVIATION PSYCHOLOGY SYMPOSIUM, 1983,

378- ECKEL, STEVE; SIMON, JOHN; CHRISTIANSEN, JULIEN; GOMER, FRANK (1983). COMMUNICATIONS WORKLOAD FOR TRANSPORT CATEGORY AIRCRAFT. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,

789- EDWARDS, RICHARD E.; TOLIN, PHILIP; JONSEN, GORDON L. (1982). PILOT VISUAL BEHAVIOR AS A FUNCTION OF NAVIGATION AND FLIGHT CONTROL MODES IN THE BOEING 757/767. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 26TH, 441-445.

37- EGGEMEIER F. T.; SHINGLEDECKER, C. A.; CRABTREE, M. S. (1985). WORKLOAD MEASUREMENT IN SYSTEM DESIGN AND EVALUATION. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 215-219.

42- EGGEMEIER, F. T.; MELVILLE, B. E.; CRABTREE, M. S. (1984). THE EFFECT OF INTERVEINING TASK PERFORMANCE ON SUBJECTIVE WORKLOAD RATINGS. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 954-958.

104- EGGEMEIER, F. THOMAS; (1981). CURRENT ISSUES IN SUBJECTIVE ASSESSMENT OF WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1981, 1981- 25TH, 513-517.

94- EGGEMEIER, F. THOMAS; CRABTREE, MARK S.; ZINGG, JENNIFER J.; REID, GARY B.; SHINGLEDECKER, CLARK A. (1982). SUBJECTIVE WORKLOAD ASSESSMENT IN A MEMORY UPDATE TASK. PROCEEDINGS OF HUMAN FACTORS SOCIETY 26TH ANN.MEET, 1982 - 26TH, 643-647.

441- EGGEMEIER, F. THOMAS; (1980). SOME CURRENT ISSUES IN WORKLOAD ASSESSMENT. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980, 24TH - 1980, 669-673

465- EGGEMEIER, F. THOMAS; MCGHEE, JENNIFER ZINGG; REID, GARY B. (1983). THE EFFECTS OF VARIATIONS IN TASK LOADING ON SUBJECTIVE WORKLOAD RATINGS SCALES. PROCEEDINGS IEEE 1983 NATIONAL AEROSPACE & ELECTRO, 1983, 1099-1105.

460- EGGEMEIER, F. THOMAS; (1981). DEVELOPMENT OF A SECONDARY TASK WORKLOAD ASSESSMENT BATTERY. IEEE, 410-414.

772- EGGEMEIER, F. THOMAS; O'DONNELL, ROBERT D. (1982). A CONCEPTUAL FRAMEWORK FOR DEVELOPMENT OF A WORKLOAD ASSESSMENT METHODOLOGY. AMERICAN PSYCHOLOGICAL ASSOCIATION, 1-11.



768- EGGEMEIER, F. THOMAS; (1986). CONSIDERATIONS IN THE APPLICATION OF SUBJECTIVE MEASURES OF WORKLOAD. CONGRESS OF THE INTERNAT. ERGONOMICS ASSOCIATION, 9TH,

764- EGGEMEIER, F. THOMAS; STADLER, MICHAEL A. (1984). SUBJECTIVE WORKLOAD ASSESSMENT IN A SPATIAL MEMORY TASK. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 28TH ANN. MEET.,

372- EGGEMEIER, THOMAS F.; CRABTREE, MARK S.; LAPOINTE, PATRICIA A. (1983). THE EFFECT OF DELAYED REPORT ON SUBJECTIVE RATINGS OF MENTAL WORKLOAD. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 27TH, 139-143.

679- EGGEMEIER, THOMAS F.; AMELL, JOHN R. (1986). VISUAL PROBABILITY MONITORING: EFFECTS OF DISPLAY LOAD AND SIGNAL DISCRIMINABILITY. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 63.

766- EGGLESON, ROBERT G.; (1984). A COMPARISON OF PROJECTED AND MEASURED WORKLOAD RATINGS USING THE SUBJECTIVE WORKLOAD ASSESSMENT TECHNIQUE (SWAT). PROCEED. OF THE NAT. AEROSPACE & ELECTRONICS CONF., MAY 21-25, 817-831.

176- EGGLESTON, ROBERT G.; KULWICKI, PHILIP V. (1984). A TECHNOLOGY FORECASTING AND ASSESSMENT METHOD FOR EVALUATING SYSTEM UTILITY AND OPERATOR WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1984, 28TH - 1984, 31-35.

399- EGGLESTON, ROBERT G.; QUINN, THOMAS J. (1984). A PRELIMINARY EVALUATION OF A PROJECTIVE WORKLOAD ASSESSMENT PROCEDURE. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1984, 28TH - 1984, 695-699.

604- ELDER, ROBERT J.; (1981). ASSESSING PILOT WORKLOAD. NAECON - NATIONAL AEROSPACE AND ENGINEERING CONFER, NAECON - 1981, 565-571.

471- ELKIND, JEROME I.; STARR, EDWARD A.; GREEN, DAVID M.; DARLEY, D. LUCILLE (1963). EVALUATION OF A TECHNIQUE FOR DETERMINING TIME-INVARIANT AND TIME-VARIANT DYNAMIC CHARACTERISTICS OF HUMAN PILOTS. NASA TECHNICAL NOTE D-1897, NASA TN D-1897,

103- ELLIS, G.A. (FLT.LT.); ROSCOE, A.H. (1982). THE AIRLINE PILOT'S VIEW OF FLIGHT DECK WORKLOAD: A PRELIMINARY STUDY USING A QUESTIONNAIRE. ROYAL AIRCRAFT ESTABLISHMENT TECHNICAL MEMORANDUM, FS(B) 465 -1982,

35- ELLISON, M. G.; ROBERTS, B. B. (1985). TIMEBASED ANALYSIS OF SIGNIFICANT COORDINATED OPERATIONS (TASCO): A COCKPIT WORKLOAD ANALYSIS TECHNIQUE. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 774-778.

734- ELLS, JERRY G.; GOTTS, GORDON H. (1977). SERIAL REACTION TIME AS A FUNCTION OF THE NATURE OF REPEATED EVENTS. JOURNAL OF EXPERIMENTAL PSYCHOLOGY, VOL. 3 (2), 234-242.

23- EPHRATH, A. R.; TOLE, J. R.; STEPHENS, A. T.; YOUNG, L. R. (1980). INSTRUMENT SCAN-IS IT AN INDICATOR OF THE PILOT'S WORKLOAD?. HUMAN FACTORS SOCIETY PROCEEDINGS, 24TH, 257-258.

470- ETO, D.K.; (1975). EVALUATION OF INTEGRATED FLIGHT CONTROL/WEAPON DELIVERY FUNCTIONS FOR TACTICAL DATA SYSTEMS. AIR FORCE FLIGHT DYNAMICS LABORATORY, AFFDL-TR-75-52,

763- FAA; (1986). MINIMUM FLIGHTCREW. ADVISORY CIRCULAR, 25.1523, 1-10.

169- FADDEN, DELMAR M.; (1982). BOEING MODEL 767 FLIGHT DECK WORKLOAD ASSESSMENT METHODOLOGY. SAE GUIDANCE AND CONTROL SYSTEM MEETING, NOVEMBER 1982,

584- FIBIGER, WALDEMAR; CHRISTENSEN, FRANK; SINGER, GEORGE; KAUFMANN, HEATHER (1986). MENTAL AND PHYSICAL COMPONENTS OF SAWMILL OPERATIVES' WORKLOAD. ERGONOMICS, 29(3), 363-375.

531- FINKELMAN, JAY M.; GLASS, DAVID C. (1970). REAPPRAISAL OF THE RELATIONSHIP BETWEEN NOISE AND HUMAN PERFORMANCE BY MEANS OF A SUBSIDIARY TASK MEASURE. JOURNAL OF APPLIED PSYCHOLOGY, 54(3), 211-213.

306- FISK, ARTHUR D.; DERRICK, WILLIAM L.; SCHNEIDER, WALTER (1983). THE ASSESSMENT OF WORKLOAD: DUAL TASK METHODOLOGY. HUMAN FACTORS SOCIETY PROCEEDINGS, 27TH, 229-233.

428- FLORA, CLARENCE C.; KRIECHBAUM, GERHARD K.L.; WILICH, WAYNE (1969). A FLIGHT INVESTIGATION OF SYSTEMS DEVELOPED FOR REDUCING PILOT WORKLOAD AND IMPROVING TRACKING ACCURACY DURING NOISE-ABA NASA CONTRACTOR REPORT:(BOEING) NASA CR-1427, NASA CR-1427,

798- FUREDY, JOHN J.; (1987). BEYOND HEART RATE IN THE CARDIAC PSYCHOPHYSIOLOGICAL ASSESS. OF MENTAL EFFORT: THE T-WAVE AMP. COMPONENT OF THE ELECTROCARDIOGRAM, 1-25.

58- GALANTER, EUGENE; HOCHBERG, JULIAN BEHAVIORAL INDICATORS OF PILOT WORKLOAD. 243-252.

613- GARDNER, RICK M.; BELTRAMO, JANELLE S.; KRINSKY, RICHARD (1975). PUPILLARY CHANGES DURING ENCODING, STORAGE, AND RETRIEVAL OF INFORMATION. PERCEPTUAL AND MOTOR SKILLS, 41, 951-955.

276- GARTNER, W.B.; MURPHY, M.R. (1979). CONCEPTS OF WORKLOAD. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 1-2.

599- GARTNER, WALTER B.; MURPHY, MILES R. (1976). PILOT WORKLOAD AND FATIGUE A CRITICAL SURVEY OF CONCEPTS AND ASSESSMENT TECHNIQUES. NASA TECHNICAL NOTE 8365, NASA-TN-D-8365,

407- GAUME, J.G.; WHITE, R.T. (1975). MENTAL WORKLOAD ASSESSMENT, II. PHYSIOLOGICAL CORRELATED OF MENTAL WORKLOAD: REPORT OF THREE PRELIMINARY LABORATORY TEST MCDONNELL DOUGLAS CORPORATION TECHNICAL REPORT, MDC J7023/01,

469- GAUME, J.G.; GLENN, J.R. (1972). UTILIZATION OF THE DAC PORTABLE BIOMEDICAL MONITORING SYSTEM (PBMS) IN PILOT WORKLOAD STUDIES. MCDONNELL DOUGLAS REPORT, MDC J5791,

167- GERATHEWOHL, S.J.; BROWN, E.L.; BURKE, J.E.; KIMBALL, K.A.; LOWE, W.F.; STACKHOUSE, S.P. (1978). INFLIGHT MEASUREMENT OF PILOT WORKLOAD: A PANEL DISCUSSION. AVIATION SPACE ENVIRONMENT MEDICINE, 49(6), 810-822.

195- GERATHEWOHL, SIEGFRIED J.; IDENTIFICATION AND MEASUREMENT OF PERCEPTUAL AND MENTAL WORKLOAD IN AIR CREWS AND OPERATORS OF AIR FORCE WEAPON SYSTEMS: AGARD REPORT,

89- GERBRANDT, L.K.; ANALYSIS OF MOVEMENT POTENTIAL COMPONENTS (1977). ANALYSIS OF MOVEMENT POTENTIAL COMPONENTS. PROG.CLIN.NEUROPHYSIOL., 1, 174-188.

266- GILL, RICHARD T.; WICKENS, CHRISTOPHER (1982). OPERATOR WORKLOAD AS A FUNCTION OF THE SYSTEM STATE: AN ANALYSIS BASED UPON THE EVENT-RELATED BRAIN POTENTIAL. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 100-107.

680- GILLILAND, KIRBY; SCHLEGEL, ROBERT; DANNELS, SHARON (1986). INDIVIDUAL DIFFERENCES IN CRITERION TASK SET PERFORMANCE. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 64-68.

216- GOERRES, HANS-PETER; (1977). SUBJECTIVE STRESS ASSESSMENT AS A CRITERION FOR MEASURING THE PSYCHOPHYSICAL WORKLOAD ON PILOTS. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEED, NO. 217,

491- GOLDSTEIN, IRWIN L.; DORFMAN, PETER W. (1978). SPEED AND LOAD STRESS AS DETERMINANTS OF PERFORMANCE IN A TIME SHARING TASK. HUMAN FACTORS, 20(5), 603-609.

799- GOMER, FRANK E.; SILVERSTEIN, LOUIS D.; BERG, W. KEITH; LASSITER, DONALD L. (1986). CHANGES IN ELECTROMYOGRAPHIC ACTIVITY ASSOCIATED WITH OCCUPATIONAL STRESS AND POOR PERFORMANCE IN THE WORKPLACE. BEHAVIORAL SCIENCES APPLICATIONS, GEN. PHYS. CORP, 1-42.

102- GOPHER, DANIEL; BRAUNE, ROLF (1983). ON THE PSYCHOPHYSICS OF WORKLOAD: WHY BOTHER WITH SUBJECTIVE MEASURES? PROCEEDINGS ANNUAL AVIATION PSYCHO SYMPOS, 2ND, 253-268.

131- GOPHER, DANIEL; BRAUNE, ROLF (1984). ON THE PSYCHOPHYSICS OF WORKLOAD: WHY BOTHER WITH SUBJECTIVE MEASURE? HUMAN FACTORS, 26(5), 519-532.

182- GOPHER, DANIEL; (1984). ASSESSMENT OF WORKLOAD IN ENGINEERING SYSTEMS. THE TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY,

333- GOPHER, DANIEL; DONCHIN, EMANUAL (1986). WORKLOAD - AN EXAMINATION OF THE CONCEPT. HANDBOOK OF PERCEPTION AND HUMAN PERFORMANCE - COG, VOL. II,

353- GOPHER, DANIEL; CHILLAG, NELA; ARZI, NIRA (1985). THE INFLUENCE OF VOLUNTARY EFFORT, CONTEXT, AND ANCHOR TASK, ON THE SUBJECTIVE ESTIMATE OF LOAD. NASA - AMES RESEARCH CENTER - TECHNICAL REPORT, 85-2,

411- GOPHER, DANIEL; CHILLAG, NELLA; ARZI, NIRA (1985). THE PSYCHOPHYSICS OF WORKLOAD - A SECOND LOOK AT THE RELATIONSHIP BETWEEN SUBJECTIVE MEASURES AND PERFORMANCE. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 640-644.

633- GOPHER, DANIEL; DONCHIN, EMMANUEL. WORKLOAD-AN EXAMINATION OF THE CONCEPT. TO APPEAR IN HNDBK OF PERCEPTION AND HUMAN PERFORM, 1-235.

379- GOPHER, DANNY; (1983). THE WORKLOAD BOOK: AN ASSESSMENT OF OPERATOR'S WORKLOAD IN ENGINEERING SYSTEMS. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,

518- GREEN R.; FLUX, R.(1977). AUDITORY COMMUNICATION AND WORKLOAD. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A4.

436- GRESSANG, RANDALL V.; POLLARD, JOSEPH E. (1974). LOW VISIBILITY LANDING PILOT MODELING EXPERIMENT AND DATA, PHASE I. AIF FORCE FLIGHT DYMANICS LAB - WRIGHT PATTERSON A, AFFDL-TR-75-41,

257- GULICK, RAMONA; (1982). VALIDATION OF PILOT WORKLOAD ESTIMATES UTILIZING IN-FLIGHT DATA. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 254-274.

101- GUNNING, DAVID; (1978). TIME ESITMATION AS A TECHNIQUE TO MEASURE WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1978, 41-45.

170- GUNNING, DAVID; MANNING, MICHAEL (CAPTAIN) (1980). THE MEASUREMENT OF AIRCREW TASK LOADING DURING OPERATIONAL FLIGHTS. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980, 24TH - 1980, 249-252.

650- GUNTER, TH. C.; VAN DER ZANDE, R. D.; WIETHOFF, M.; MULDER, G.; MULDER, L. J. M. VISUAL SELECTIVE ATTENTION DURING MEANINGFUL NOISE AND AFTER SLEEP DEPRIVATION.

417-HACKER, W.; PLATH, H.E.;RICHTER, P.;ZIMMER, K. (1978). INTERNAL REPRESENTATION OF TASK STRUCTURE AND MENTAL LOAD OF WORK: APPROACHES AND METHODS OF ASSESSMENT. ERGONOMICS, 21(3), 187-194.

434- HALL, THOMAS J.; PASSEY, GEORGE E.; MEIGHAN, THOMAS W. (1965). PERFORMANCE OF VIGILANCE AND MONITORING TASKS AS A FUNCTION OF WORKLOAD DEFENSE DOCUMENTATION CENTER DEFENSE SUPPLY AGENCY, AD 615 921,

716- HAMILTON, P.; MULDER, G.; STRASSER, H.; URSIN, H. (1977). FINAL REPORT OF PHYSIOLOGICAL PSYCHOLOGY GROUP. PLENUM PRESS, 367-381.

711- HAMILTON, PETER; (1977). PROCESS ENTROPY AND COGNITIVE CONTROL: MENTAL LOAD IN INTERNALIZED THOUGHT PROCESS. PLENUM PRESS, 289-299.

293- HANCOCK, P. A.; MESHKATI, N.; ROBERTSON, M. M. (1985). PHYSIOLOGICAL REFLECTIONS OF MENTAL WORKLOAD. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, NOVEMBER, 1110-1114.

292- HANCOCK, P. A.; (1986). THE ROLE OF TEMPORAL FACTORS IN WORKLOAD PREDICTION. IEEE, 1049-1053.

785- HANSEN, C. M.; (1970). PRELIMINARY STUDY OF FEASIBILITY OF MEASUREMENT OF MENTAL WORKLOAD BY HEART RATE BEAT-TO-BEAT INTERVAL VARIATIONS. SR-11,

670- HARMS, D.; PACHALE, E.; HABERSETZER, R.; KOHLER, G. INFLUENCE OF THE WORKLOAD OF FLIGHT MISSIONS ON THE PERFORMANCE OF THE VISUAL SYSTEM OF AIRCREW. GERMAN AIRFORCE INSTITUTE OF AVIATION MEDICINE,

237- HARRIS, D.A.; PEGRAM G.VERNE; HARTMAN, BRYCE O. (1971). PERFORMANCE AND FATIGUE IN EXPERIMENTAL DOUBLE-CREW TRANSPORT MISSIONS. AEROSPACE MEDICINE, SEPTEMBER 1971, 980-985.

391- HARRIS, R.L.; TOLE, J.R.;STEPHENS, A.T.;EPHRATH, A.R. (1981). VISUAL SCANNING BEHAVIOR AND PILOT WORKLOAD. FIRST SYMPOSIUM ON AVIATION PSYCHOLOGY - TECHNICAL, APL-1-81, 216-225.

231- HARRIS, RANDALL L.; GLOVER, BOBBY J. (1985). EFFECTS OF DIGITAL ALTIMETRY ON PILOT WORKLOAD. NASA TECHNICAL MEMORANDUM 86424, 86424, 1-17.

787- HARRIS, RANDALL L.; TOLE, JOHN R.; EPHRATH, ARYE R.; STEPHENS, A. THOMAS (1982). HOW A NEW INSTRUMENT AFFECTS PILOTS' MENTAL WORKLOAD. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 26TH, 1010-1013.

641- HARRIS, STEPHEN D.; (1978). HUMAN PERFORMANCE IN CONCURRENT VERBAL AND TRACKING TASKS:A REVIEW OF THE LITERATURE. NAVAL AEROSPACE MEDICAL RESEARCH LAB, ADA060493, 1-8.

27- HART, S. G.; STAVELAND, L. E. (1986). DEVELOPMENT OF A MULTI-DIMENSIONAL WORKLOAD RATING SCALE: RESULTS OF EMPIRICAL AND THEORETICAL RESEARCH. HUMAN MENTAL WORKLOAD (BOOK),

33-HART, S. G.; HAUSER, J. R.; LESTER, P. T. (1984). INFLIGHT EVALUATION OF FOUR MEASURES OF PILOT WORKLOAD. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 945-949.

40- HART, S. G.; SELLERS, J. J.; GUTHART, G. (1984). THE IMPACT OF RESPONSE SELECTION AND RESPONSE EXECUTION DIFFICULTY ON THE SUBJECTIVE EXPERIENCE OF WORKLOAD. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 732-736.

380- HART, SANDRA; (1983). SOURCES OF LOAD (SOLO). NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,

93- HART, SANDRA G.; CHILDRESS, MARY E.; HAUSER, JAN R. (1982). INDIVIDUAL DEFINITIONS OF THE TERM "WORKLOAD". PROCEEDINGS - PSYCHOLOGY OF THE DOD SYMPOSIUM 1982.

97- HART, SANDRA G.; BORTOLUSSI, MICHAEL R. (1983). PILOT ERRORS AS A SOURCE OF WORKLOAD. PROCEEDINGS 2ND SYMPOSIUM ON AVIATION PSYCHOLOGY, 1983,

111- HART, SANDRA G.; CHILDRESS, MARY E.; BORTOLUSSI, MICHAEL (1981). DEFINING THE SUBJECTIVE EXPERIENCES OF WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1981, 1981- 25TH, 527-531.

171- HART, SANDRA G.; SHERIDAN, THOMAS B. (1984). PILOT WORKLOAD, PERFORMANCE, AND AIRCRAFT CONTROL AUTOMATION. PROCEEDINGS AGARD SYMPOSIUM ON HUMAN FACTORS CONSI, 1984, 1-23.

185- HART, SANDRA G.; BATTISTE, VERNOL; LESTER, PATRICK T. (1984). POPCORN: A SUPERVISORY CONTROL SIMULATION FOR WORKLOAD AND PERFORMANCE RESEARCH. PROCEEDINGS 20TH ANNUAL MANUAL CONTROL MEET. 1984, 20TH - 1984,

264- HART, SANDRA G.; (1982). THEORETICAL BASIS FOR WORKLOAD ASSESSMENT RESEARCH AT NASA-AMES RESEARCH CENTER. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 455-470.

317- HART, SANDRA G.; BORTOLUSSI, MICHAEL R. (1984). PILOT ERRORS AS A SOURCE OF WORKLOAD. HUMAN FACTORS, 26(5), 545-556.

374- HART, SANDRA G.; (1983). WORKLOAD AND PERFORMANCE ASSESSMENT RESEARCH PLAN. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-12-83,

397- HART, SANDRA G.; (1985). RECENT RESEARCH PAPERS/PLANS FOR THE FUTURE/REQUEST FOR HELP. PRIVATE MEMO, 239-3/FL,

240- HARTMAN, B.O.; HALE, H.B.; HARRIS, D.A.; SANFORD, J.F. III. (1974). PSYCHOBIOLOGIC ASPECTS OF DOUBLE-CREW LONG-DURATION MISSION IN C-5 AIRCRAFT. AEROSPACE MEDICINE, OCTOBER 1974, 1149-1153.

54- HARTMAN, BRYCE; HUGHES, HARRY; SAMN, SHERWOOD; ALBANESE, RICHARD; LOZANO, PAUL. COCKPIT WORKLOAD IS THE TIP OF THE ICEBERG. 109-113.

143- HARTMAN, BRYCE O.; (1980). EVALUATION OF METHODS TO ASSESS WORKLOAD. AGARD TECHNICAL EVALUATION REPORT WG-08, REPORT NO. 139, 1-15.

274- HARTZELL, E. JAMES; (1979). HELICOPTER PILOT PERFORMANCE AND WORKLOAD AS A FUNCTION OF NIGHT VISION SYMBOLOLOGIES. IEEE, 995-996.

757- HASBROOK, A. HOWARD; RASMUSSEN, PAUL G. (1970). PILOT HEART RATE DURING IN-FLIGHT SIMULATED INSTRUMENT APPROACHES IN A GENERAL AVIATION AIRCRAFT. AEROSPACE MEDICINE, VOL. 41 (10), 1148-1152.

773- HASKELL, B. E.; REID, GARY B. (1986). THE SUBJECTIVE PERCEPTION OF WORKLOAD IN LOW TIME PRIVATE PILOTS. TO APPEAR IN JOUR. OF AVIAT., SPACE, & ENV. MED., 1-12.

381- HAUSER, JAN; (1983). THE POTENTIAL POWER OF THE PERCEPTION OF PERFORMANCE (P4). NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,

96- HAUSER, JAN R.; CHILDRESS, MARY E.; HART, SANDRA G. (1982). RATING CONSISTENCY AND COMPONENT SALIENCE IN SUBJECTIVE WORKLOAD ESTIMATION. PROCEEDINGS 18TH ANNUAL CONFERENCE ON MANUAL CNTRL, 1982 - 18TH, 127-149.

268- HAUSER, JAN R.; CHILDRESS, MARY E.; HART, SANDRA G. (1982). RATING CONSISTENCY AND COMPONENT SALIENCE IN SUBJECTIVE WORKLOAD ESTIMATION. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 127-149.

239- HAWKINS, HAROLD L.; KETCHUM, DANIEL (1977). THE CASE AGAINST SECONDARY TASK ANALYSES OF MENTAL WORKLOAD. TECHNICAL REPORT - OFFICE OF NAVAL RESEARCH (458), NO014-77-C-0643,

228- HEFFLEY, ROBERT K.; (1983). PILOT WORKLOAD FACTORS IN THE TOTAL PILOT-VEHICLE-TASK SYSTEM. HUMAN FACTORS SOCIETY PROCEEDINGS, 27TH, 234-238.

100- HELM, WADE R.; (1981). PSYCHOMETRIC MEASURES OF TASK DIFFICULTY UNDER VARYING LEVELS OF INFORMATION LOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1981, 1981 - 25TH, 518-521.

256- HEMINGWAY, JOHN C.; AIKEN, EDWIN W.; BLANKEN, CHRISTOPHER, L. (1982). AN INVESTIGATION OF THE EFFECTS OF AN ISOMETRIC SIDE-STICK CONTROLLER ON PILOT WORKLOAD FOR HELICOPTER TERRAIN FLIGHT (A PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 254.

601- HENRY, P.H.; DAVIS, T.Q.; ENGELKEN, E.J.; TRIEBWASSER, H.H.; LANCASTER, M.C. (1974). ALCOHOL-INDUCED PERFORMANCE DECREMENTS ASSESSED BY TWO LINK TRAINER TASKS USING EXPERIENCED PILOTS. AEROSPACE MEDICINE, 45(10), 1180-1189.

492- HESS, RONALD A.; (1977). PREDICTION OF PILOT OPINION RATINGS USING AN OPTIMAL PILOT MODEL. HUMAN FACTORS, (5), 459-475.

151- HICKS, THOMAS G.; WIERWILLE, WALTER W. (1979). COMPARISON OF FIVE MENTAL WORKLOAD ASSESSMENT PROCEDURES IN A MOVING-BASE DRIVING SIMULATOR. HUMAN FACTORS, 21(2), 129-143.

408- HIGGINS, ARNOLD S.; MERTENS, HENRY W.; MCKENZIE, JESS M.; FUNKHOUSER, GORDON E.; WHITE, MARY ANN; MILBURN, NELDA J. (1982). THE EFFECTS OF PHYSICAL FATIGUE AND ALTITUDE ON PHYSIOLOGICAL, BIOCHEMICAL, AND PERFORMANCE RESPONSES. US DEPARTMENT OF TRANSPORTATION AVIATION ADMIN., FAA-AM-81-10,

108- HIGGINS, THOMAS H.; (1981). A SYSTEMS ENGINEERING EVALUATION METHOD FOR PILOTED AIRCRAFT AND OTHER MAN-OPERATED VEHICLES AND MACHINES: WITH HYPOTHET U.S. DEPARTMENT OF TRANSPORTATION: FEDERAL AVIATION, 1-55.

98- HOGAN, JOYCE C.; FLEISHMAN, EDWIN A. (1979). AN INDEX OF PHYSICAL EFFORT REQUIRED IN HUMAN TASK PERFORMANCE. JOURNAL OF APPLIED PSYCHOLOGY, 64(2), 197-204.

501- HOH, ROGER H.; BERGERON, HUGH; HINTON, DAVID PRACTICAL GUIDANCE FOR THE DESIGN OF CONTROLS AND DISPLAYS FOR SINGLE PILOT IFR. SAE PROCEEDINGS, 70-90.

717- HOPKIN, V.D.; (1977). MENTAL WORKLOAD MEASUREMENT IN AIR TRAFFIC CONTROL. PLENUM PRESS, 381-386.

722- HOPKIN, V.D.; PARKS, D.L.; ROHMERT, W.; RAULT, A.; SOEDE, T.; SCHMIDTKE (1977). FINAL REPORT OF APPLICATIONS GROUP. PLENUM PRESS, 469-495.

32- HORST, R. L.; MUNSON, R. C.; RUCHKIN, D. S. (1984). EVENT-RELATED POTENTIAL INDICES OF WORKLOAD IN A SINGLE TASK PARADIGM. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 727-731.

657- HOWITT, J.; (1973). ASSESSMENT OF PILOT WORKLOAD. FLIGHT DECK ENVIRONMENT AND PILOT WORKLOAD PROCEED, BRN 805323, 1-8.

571- HOWITT, J.S.; HAY, A.E.; SHERGOLD, G.R.; FERRES, H.M. (1978). WORKLOAD AND FATIGUE-IN-FLIGHT EEG CHANGES. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, OCTOBER, 1197-1202.

532- HUDDLESTON, H.F.; WILSON, R.V. (1971). AN EVALUATION OF THE USEFULNESS OF FOUR SECONDARY TASKS IN ASSESSING THE EFFECT OF A LAG IN SIMULATED AIRCRAFT DYNAMICS. ERGONOMICS, 14(3), 371-380.

746- HURLEY, BEN F.; ET.AL. (1980). CARDIOVASCULAR AND SYMPATHETIC REACTIONS TO IN-FLIGHT EMERGENCY RESPONSES AMONG BASE FIRE FIGHTERS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 51 (8), 788-792.

249- HWOSCHINSKY, PETER V.; NEELAND, ROGER; PARK, JOHN (1982). CIVIL AVIATION AIRCREW PERFORMANCE ENHANCEMENT AND ERROR REDUCTION. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 29-52.

653- HYNDMAN, B. W.; GREGORY, J. R. (1975). SPECTRAL ANALYSIS OF SINUS ARRHYTHMIA DURING MENTAL LOADING. ERGONOMICS OF THE HOME, 18(3), 255-270.



725- HYYPPA, M.; AUNOLA, S.; LAHTELA, K.; LAHTI, R.; MARNIEMI, J. (1983). PSYCHONEUROENDOCRINE RESPONSES TO MENTAL LOAD IN AN ACHIEVEMENT TASK. ERGONOMICS, 26(12), 1155-1162.

73- ISREAL, JACK B.; WICKENS, CHRISTOPHER D.; CHESNEY, GREGORY L.; DONCHIN, EMANUEL (1980). THE EVENT-RELATED BRAIN POTENTIAL AS AN INDEX OF DISPLAY-MONITORING WORKLOAD. HUMAN FACTORS, 22(2), 211-224.

573- ISREAL, JACK B.; CHESNEY, GREGORY L.; WICKENS, CHRISTOPHER D.; DONCHIN, EMANUEL (1980). P300 AND TRACKING DIFFICULTY: EVIDENCE FOR MULTIPLE RESOURCES IN DUAL-TASK PERFORMANCE. PSYCHOPHYSIOLOGY, 17(3), 259-273.

129- JENSEN, RICHARD S.; CHAPPELL, SHERRY (1983). PILOT PERFORMANCE AND WORKLOAD ASSESSMENT: AN ANALYSIS OF PILOT ERRORS. NASA - AMES RESEARCH CENTER REPORT, 1-50.

382- JENSEN, RICHARD S.; (1983). PILOT PERFORMANCE AND WORKLOAD ASSESSMENT: AN ANALYSIS OF PILOT ERRORS. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83, 1-11.

704- JEX, HENRY; (1977). A PROPOSED SET OF STANDARDIZED SUB-CRITICAL TASKS FOR TRACKING WORKLOAD CALIBRATION. PLENUM PRESS, 179-188.

703- JEX, HENRY; CLEMENT, WARREN (1977). DEFINING AND MEASURING PERCEPTUAL-MOTOR TASKS. PLENUM PRESS, 125-178.

219- JEX, HENRY R.; CLEMENT, WARREN F. (1978). DEFINING AND MEASURING PERCEPTUAL-MOTOR WORKLOAD IN MANUAL CONTROL TASKS. PROCEEDINGS AGARD CONFERENCE ON MENTAL WORKLOAD, 1977,

405- JEX, HENRY R.; (1981). MEASURING AIRCREW WORKLOAD: PROBLEMS, PROGRESS, AND PROMISES. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY - 1982, 216-221.

320- JOHANNSSEN, GUNNAR; ROUSE, WILLIAM B. (1983). STUDIES OF PLANNING BEHAVIOR OF AIRCRAFT PILOTS IN NORMAL, ABNORMAL, AND EMERGENCY SITUATIONS. IEEE TRANSACTIONS ON SYSTEMS, MAN, & CYBERNETICS, VOL -SMC 13 #3, 267-278.

695- JOHANNSSEN, GUNNAR; (1977). WORKLOAD AND WORKLOAD MEASUREMENT. PLENUM PRESS, 3-11.

701- JOHANNSSEN, G.; MORAY, N.; PEW, R.; RASMUSSEN, J.; SANDERS, A.; WICKENS, C. (1977). FINAL REPORT OF EXPERIMENTAL PSYCHOLOGY GROUP. PLENUM PRESS, 101-117.

429- JOHNSTON, DONALD E.; KLEIN, RICHARD H.; HOB, ROGER G. (1976). MANUAL AND AUTOMATIC FLIGHT CONTROL DURING SEVERE TURBULENCE PENETRATION. NASA CONTRACTOR REPORT:(SYSTEMS TECHNOLOGY INC.), NASA CR-2677,

265- JUNKER, ANDREW M.; WILSON, GLEN F.(1982). DECISION MAKING AND THE STEADY STATE VISUALLY EVOKED EEG. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 99.

562- JUNKER, ANDREW M.; KENNER, KEVIN M.; CASEY, ELIZABETH J. (1986). THE EFFECT OF TASK DIFFICULTY ON THE STEADY STATE VISUAL EVOKED RESPONSE. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, 905-908.

560- JUNKER, ANDREW M.; KENNER, KEVIN M.; KLEINMAN, DAVID L.; MCCLURG, TERRENCE D. (1985). COMPARISON OF TRANSIENT AND STEADY STATE CORTICAL EVOKED POTENTIAL. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, V.2, 854-860.

587- KALSBECK, J.W.H.; (1973). DO YOU BELIEVE IN SINUS ARRHYTHMIA? ERGONOMICS, 16(1), 99-104.

383- KANTOWITZ, BARRY; (1983). OBJECTIVE MEASURES OF PILOT WORKLOAD. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROGRAM, 1-20-83.

384- KANTOWITZ, BARRY; (1983). A THEORETICAL APPROACH TO MEASURING PILOT WORKLOAD. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROGRAM, 1-20-83.

17- KANTOWITZ, BARRY H.; HART, SANDRA G.; BORTOLUSSI, MICHAEL R. (1983). MEASURING PILOT WORKLOAD IN A MOVING-BASE SIMULATOR: I. ASYNCHROLOUS SECONDARY CHOICE-REACTION TASK. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 27TH, 319-322.

140- KANTOWITZ, BARRY H.; MENTAL WORKLOAD. HUMAN FACTORS PSYCHOLOGY (IN PRESS), NORTH HOLLAND.

158- KANTOWITZ, BARRY H.; HART, SANDRA G.; BORTOLUSSI, MICHAEL R.; SHIVELY, ROBERT J.; KANTOWITZ, SUSAN C. (1984). MEASURING PILOT WORKLOAD IN A MOVING-BASE SIMULATOR; II. BUILDING LEVELS OF WORKLOAD. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.

314- KANTOWITZ, BARRY H.; HART, SANDRA G.; BORTOLUSSI, MICHAEL R.; SHIVELY, ROBERT J.; KANTOWITZ, SUSAN C. (1984). MEASURING PILOT WORKLOAD IN A MOVING-BASE SIMULATOR: II. BUILDING LEVELS OF WORKLOAD. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.

628- KANTOWITZ, BARRY H.; (1983). THEORETICAL APPROACH TO MEASURING PILOT WORKLOAD. NASA ANNUAL PROGRESS REPORT, N84-17859, 113.

68- KARLIN, LAWRENCE; MARTZ, MERRILL J. ; MORDKOFF, ARNOLD M. (1970). MOTOR PERFORMANCE AND SENSORY-EVOKED POTENTIALS. ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOL, 28, 307-313.

- 790- KARSTEN, GLORIA; GOLDBERG, BERNARD; ROOD, RICHARD; SULZER, RICHARD. (1975). OCULOMETER MEASUREMENT OF AIR TRAFFIC CONTROLLER VISUAL ATTENTION. NATIONAL TECHNICAL INFORMATION SERVICE, AD/A-006 965, 1-22.
- 640- KELLEY, CHARLES; WARGO, MICHAEL J. (1967). CROSS-ADAPTIVE OPERATOR LOADING TASKS. HUMAN FACTORS, 9(5), 395-404.
- 557- KENNER, K.M.; JUNKER, A.M.; LEVISON, W.H. (1985). A LINEAR, DYNAMIC MODEL FOR THE VISUAL-CORTICAL EVOKED RESPONSE SYSTEM. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, V.2, 861-867.
- 565- KENNER, KEVIN M.; JUNKER, ANDREW M.; GILL, RICHARD T. (1986). VISUAL EVOKED RESPONSE IN THE PERIPHERY, THE BEGINNINGS OF AN OBJECTIVE MEASURE OF PLL. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, 909-912.
- 69- KESSEL, C. J.; BRICKNER, M.; ALLON, Z.; SEIDMANN, A. DIGITAL MODELLING OF PILOT WORKLOAD IN HIGH SPEED HIGH PERFORMANCE AIRCRAFT. 279-286.
- 272- KHALIL, HASSAN; (1979). APPROXIMATION OF NASH STRATEGIES. IEEE, CH1486-0/79, 948-951.
- 567- KOLES, ZOLY J.; FLOR-HENRY, PIERRE. (1981). MENTAL ACTIVITY AND THE E.E.G.: TASK AND WORKLOAD RELATED EFFECTS. MED. & BIOL. ENG. & COMPUT. 19, 185-194.
- 398- KRAMER, ARTHUR F.; (1985). EVENT-RELATED BRAIN POTENTIAL INDICES OF COGNITIVE WORKLOAD AND AUTOMATICITY. INSTITUTE OF AVIATION RESEARCH LAB, U. OF ILLINOIS.
- 795- KRAMER, ARTHUR F.; SIREVAAG, ERIK J.; BRAUNE, ROLF. A PSYCHOPHYSIOLOGICAL ASSESSMENT OF OPERATOR WORKLOAD DURING SIMULATED FLIGHT MISSIONS. HUMAN FACTORS (IN PRESS), 1-33.
- 139- KRAMER, ARTHUR R.; WICKENS, CHRISTOPHER D.; DONCHIN, EMANUEL. (1983). AN ANALYSIS OF THE PROCESSING REQUIREMENTS OF A COMPLEX PERCEPTUAL-MOTOR TASK. HUMAN FACTORS, 25(6), 597-621.
- 427- KRAMER, AURTHUR F.; WICKENS, CHRISTOPHER D. (1985). EVENT-RELATED BRAIN POTENTIALS AND RESOURCE ALLOCATION: FROM DUAL-TASK DECREMENTS TO DUAL-TASK INTEGRALITY. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 29TH - 1985, 966-970.
- 793- KREBS, MARJORIE J.; WINGERT, JAMES W.; CUNNINGHAM, THOMAS. (1977). EXPLORATION OF AN OCULOMETER-BASED MODEL OF PILOT WORKLOAD. NASA REPORT, 76SRC39, 1-91.
- 622- KUJAR, WILLIAM T.; GAVEL, PAUL; MORELAND, JAMES A. (1976). IMPACT OF AUTOMATION UPON TRAFFIC CONTROL PRODUCTIVITY/CAPACITY (ARTS III). U.S.DEPT OF TRANSPORTATION FAA, FAA-RD-77-39, 1-16.

693- KUPERMAN GILBERT G.; WILSON, DENISE, L. (1986). AN EXPERT SYSTEM APPROACH TO WORKLOAD REDUCTION. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 702-706.

340- KUPERMAN, GILBERT G.; (1985). PRO-SWAT APPLIED TO ADVANCED HELICOPTER CREWSTATION CONCEPTS. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 29TH - 1985, 398-402.

404- KUPERMAN, GILBERT G.; WILSON, DENISE L. (1985). A WORKLOAD ANALYSIS FOR STRATEGIC CONVENTIONAL STANDOFF CAPABILITY MISSIONS. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEETING. 29TH - 1985, 635-639.

524- LANE, N.E.; STREIB, M.I.; WHERRY, R.J. (1977). THE HUMAN OPERATOR SIMULATOR: WORKLOAD ESTIMATION USING A IMULATED SECONDARY TASK. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A11.

432- LANIER, H. MILLER; BUTLER, E. DEAN. (1966). AN INVESTIGATION OF FLIGHT PROFICIENCY OF STUDENT PILOTS TRAINED IN AN AIRCRAFT EQUIPPED WITH AN AUTOMATIC STABILITY/CON. DEFENCE DOCUMENTATION CENTER DEFENSE SUPPLY AGENCY, AD 653 734.

563- LAUGHERY, RON; ARCHER, RICK; KRAMME, KEN. (1986). A MICRO SAINT SIMULATION ANALYZING OPERATOR WORKLOAD IN A FUTURE ATTACK HELICOPTER. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, 896-902.

211- LEES, MICHAEL A.; KIMBALL, KENT A.; STONE, LEWIS W. (1977). THE ASSESSMENT OF ROTARY WING AVIATOR PRECISION PERFORMANCE DURING EXTENDED HELICOPTER FLIGHTS. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEEDINGS, NO. 217.

580- LEGG, S.J.; HASLAM, D.R. (1984). EFFECT OF SLEEP DEPRIVATION ON SELF-SELECTED WORKLOAD. ERGONOMICS, 27(4), 389-396.

788- LENNOX, D.; (1963). AIRLINE PILOTS' EYE MOVEMENTS DURING TAKE-OFF AND LANDING IN VISUAL METEROLOGICAL CONDITIONS. AUSTRALIAN DEFENCE SCI. SERV. AERONAUT. RES. LABS, HUM. ENG. NO.15.

414- LEPLAT, JACQUES; (1978). FACTORS DETERMINING WORKLOAD. ERGONOMICS, 21(3), 143-149.

705- LEVISON, WILLIAM; (1977). A MODEL FOR MENTAL WORKLOAD IN TASKS REQUIRING CONTINUOUS INFORMATION PROCESSING. PLENUM PRESS, 189-218.

740- LEWIS, CHARLES E.; JONES, WALTON L.; AUSTIN, FRANK; ROMAN, JAMES. (1967). FLIGHT RESEARCH PROGRAM: IX. MEDICAL MONITORING OF CARRIER PILOTS IN COMBAT - II. AEROSPACE MEDICINE, JUNE, 581-592.

724- LEWIS, GREGORY; (1983). BIOELECTRIC PREDICTORS OF PERSONNEL PERFORMANCE: A REVIEW OF RELEVANT RESEARCH AT NAVY PERSONNEL RESEARCH AND DEVELOPMENT. DEFENSE TECH INFO CENTER, 1-23.

63- LEWIS, GREGORY W.; RIMLAND, BERNARD. (1980). PSYCHOBIOLOGICAL MEASURES AS PREDICTORS OF SONAR OPERATOR PERFORMANCE. NAVY PERSONNEL RESEARCH DEVELOPMENT CENTER, NPRDC TR80-26, 1-22.

117- LINDHOLM, ERNEST; CHEATHAM, CARY M. (1983). AUTONOMIC ACTIVITY AND WORKLOAD DURING LEARNING OF A SIMULATED AIRCRAFT CARRIER LANDING TASK. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, MAY, 435-439.

134- LINDHOLM, ERNEST; CHEATHAM, CARY; KORIATH, JOHN. (1984). PSYCHOLOGICAL ASSESSMENT OF AIRCRAFT PILOT WORKLOAD IN SIMULATED LANDING AND SIMULATED HOSTILE THREAT ENVIRONMENTS. DTIC - DEFENSE LOGISTICS AGENCY - TECHNICAL REPORT.

694- LINDHOLM, ERNEST; (1981). PHYSIOLOGICAL AND DUAL TASK ASSESSMENT OF WORKLOAD DURING TRACKING AND SIMULATED FLIGHT. DTIC TECHNICAL REPORT, AFOS-TR-82-0714, 1-75.

782- LINDHOLM, ERNEST; MILLER, MILTON J.; TOLDY, MARGARET. (1985). PHYSIOLOGICAL ASSESSMENT ON PILOT WORKLOAD IN THE A-7 AIRCRAFT. FINAL REPORT, F33615-81-C-000, 1-50.

744- LINDQVIST, A.; KESKINEN, E.; ANTILA, K.; HALKOLA, L.; PELTONEN, T.; VALIMAKI, I. (1983). HEART RATE VARIABILITY, CARDIAC MECHANICS, AND SUBJECTIVELY EVALUATED STRESS DURING SIMULATOR FLIGHT. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, AUGUST, 685-690.

525- LINTON, P.M.; JAHNS, D.W.; CHATELIER, P.R. (1977). OPERATOR WORKLOAD ASSESSMENT MODEL: AN EVALUATION OF A VF/VA-V/STOL SYSTEM. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A12.

652- LOGAN, GORDON D.; (1979). ON THE USE OF A CONCURRENT MEMORY LOAD TO MEASURE ATTENTION AND AUTOMATICITY. JOURNAL OF EXPERIMENTAL PSYCHOLOGY: HUMAN PERCEPTION, 5(2), 189-242.

210- LOVESEY, E.J.; (1977). IN-FLIGHT OF HELICOPTER PILOT ACTIVITY. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEEDINGS, NO. 217.

385- LYMAN, JOHN; (1983). MODEL-BASED APPROACHES FOR PARTITIONING SUBJECTIVE WORKLOAD ASSESSMENTS. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83.

136- MADNI, AZAD M.; SCOPP, RICHARD I.; CHU, YEE-YEEN; PURCETT, DENIS D. (1984). OPERATOR ALERTNESS/ WORKLOAD ASSESSMENT USING STOCHASTIC MODEL-BASED ANALYSIS OF MYOELECTRIC SIGNALS. DTIC - DEFENSE LOGISTICS AGENCY - TECHNICAL REPORT.

230- MADNI, AZAD M.; LYMAN, JOHN. (1983). MODEL-BASED ESTIMATION AND PREDICTION OF TASK-IMPOSED MENTAL WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1983- 27TH, 314-318.

507- MATTES, R.E.; ASIALA, C.F. (1975). HIGH ACCELERATION CONTROLLER LOCATIONS - VOL I -PROGRAM SUMMARY. AIF FORCE FLIGHT DYNAMICS LABORATORY, AFFDL-TR=75-58.

290- MCCALLUM, W. C.; POCOCK, P. V. (1980). EFFECTS OF TASK COMPLEXITY ON EVENT-RELATED POTENTIALS RECORDED FROM THE SCALP AND CEREBRAL CORTEX. PSYCHOPHYSIOLOGY, 325-336.

289- MCCLOY, THOMAS M.; DERRICK, WILLIAM L.; WICKENS, CHRISTOPHER D. (1983). WORKLOAD ASSESSMENT METRICS - WHAT HAPPENS WHEN THEY DISSOCIATE? SAE, 831416, 37-42.

544- MCGHEE, JENNIFER, ZINGG; SILER, KIMBERLY R.; HINSON, THOMAS A. (1983). DEVELOPMENT OF AN AUDITORY MONITORING TASK FOR THE EVALUATION OF WORKLOAD METRICS. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFER, V.2, 1090-1092.

126- MCGILLEM, C.D.; AUNON, J.I. (1981). NEW TECHNIQUES FOR MEASURING SINGLE EVENT RELATED BRAIN POTENTIAL. AIR FORCE OFFICE OF SCIENTIFIC RESEARCH, 1-15.

673- MCINTOSH, BILLY B.; MILTON, JOHN L.; COLE, EDWARD L. (1952). PILOT PERFORMANCE DURING EXTENDED PERIODS OF INSTRUMENT FLIGHT. AERO MEDICAL LABORATORY, AF TECH RP.6725, 1-41.

456- MCKENDRY, JAMES M.; HURST, PAUL M. (1971). ADAPTATION TO SPEED STRESS IN AN IMMEDIATE MEMORY TASK. HUMAN FACTORS, 13(6), 543-552.

286- MCKENZIE, R.E.; BUCKLEY, E.P.; SARLANIS, K. (1979). AN EXPLORATORY STUDY OF PSYCHOPHYSIOLOGICAL MEASUREMENT AS INDICATORS OF AIR TRAFFIC CONTROL SECTOR WORKLOAD. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 129+.

165- MCLUCAS, JOHN L.; DRINKWATER, FRED J. III; LEAF, HOWARD W. (1981). REPORT OF THE PRESIDENT'S TASK FORCE ON AIRCRAFT CREW COMPLEMENT.

242- METZLER, THOMAS R.; SHINGLEDECKER, CLARK A. (1982). REGISTER OF RESEARCH IN PROGRESS ON MENTAL WORKLOAD. AIR FORCE AEROSPACE MEDICAL RESEARCH LABORATORY, AFAMRL-TR=82-42, 1-120.

509- MEYER, ROBERT P.; LAVESON, JACK I.; PAPE, GARY L.; EDWARDS, BERNELL J. (1978). DEVELOPMENT AND APPLICATION OF A TASK TAXONOMY FOR TACTICAL FLYING. AIR FORCE HUMAN RESOURCES LAB, AFHRL-TR-78-42(.

505- MICALIZZI, JOHN; WICKENS, CHRISTOPHER D. (1980). THE APPLICATION OF ADDITIVE FACTORS METHODOLOGY TO WORKLOAD ASSESSMENT IN A DYNAMIC SYSTEM MONITORING TASK. OFFICE OF NAVAL RESEARCH ENGINEERING PSYCH PROGRAM, EPL-80-2/ONR-80, 1-43.

- 481- MICHON, J.A.; A NOTE ON THE MEASUREMENT OF PERCEPTUAL MOTOR LOAD. ERGONOMICS, 7, 461-464.
- 533- MICHON, J.A.; (1966). TAPPING REGULARITY AS A MEASURE OF PERCEPTUAL MOTOR LOAD. ERGONOMICS, 9(5), 401-412.
- 252- MILAM, DAVID W. LT.COL.; (1982). A PILOT'S PERSPECTIVE ON WORKLOAD IN SINGLE-SEAT FIGHTERS. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 12-19.
- 593- MILLER, G. KIMBALL; RILEY, DONALD R. (1978). EVALUATION OF SEVERAL SECONDARY TASKS IN THE DETERMINATION OF PERMISSIBLE TIME DELAYS IN SIMULATOR VISUAL AND MOTION CUE. NASA TECHNICAL PAPER 1214, NASA-TP-1214.
- 172- MILLER, RONALD G.; HART, SANDRA G. (1984). ASSESSING THE SUBJECTIVE WORKLOAD OF DIRECTIONAL ORIENTATION TASKS. PROCEEDINGS OF 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.
- 193- MITAL, ANIL; ULGEN, O.M. (1982). MENTAL STRESS QUANTIFICATION AND IDENTIFICATION DECISION MODELING. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 26TH - 1982, 474-478.
- 168- MOHLER, S.R.; SULZER, R.; COX, W.J.; NICHAMIN, H.D. (1981). ELEMENTS OF AIRCREW WORKLOAD. HUMAN FACTORS BULLETIN, JAN-APR 1981, 1-4.
- 674- MOHLER, STANLEY R.; (1965). FATIGUE IN AVIATION ACTIVITIES. FEDERAL AVIATION AGENCY OFFICE OF AVIATION MEDICIN, AD620022, 1-12.
- 133- MOISE, SAMUEL L.; (1984). AN INVESTIGATION OF THE USE OF STEADY-STATE EVOKED POTENTIALS FOR HUMAN PERFORMANCE AND WORKLOAD ASSESSMENT AND CONTROL. AIR FORCE OFFICE OF SCIENTIFIC RESEARCH LIFE SCI.D, AFSR-TR-84-0770, 1-18.
- 99- MORAY, NEVILLE; (1980). SUBJECTIVE MEASUREMENT OF MENTAL WORKLOAD. MAN-MACHINE SYSTEMS LABORATORY: DEPT OF M.E.- MIT, 1-27.
- 92- MORAY, NEVILLE; (1982). SUBJECTIVE MENTAL WORKLOAD. HUMAN FACTORS, 24(1), 25-40.
- 267- MORAY, NEVILLE; WATERTON, K. (1982). A FUZZY MODEL OF RATHER HEAVY WORKLOAD. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 120-126.
- 386- MORAY, NEVILLE; (1983). DEVELOPMENT OF A FUZZY SET CALCULUS FOR ESTIMATING PILOT WORKLOAD AS A FUNCTION OF MODES OF OPERATOR BEHAVIOR. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROGRAM, 1-20-83.
- 696- MORAY, NEVILLE; (1977). MODELS AND MEASURES OF MENTAL WORKLOAD. PLENUM PRESS, 13-23.

- 781- MORAY, NEVILLE; (1977). MENTAL WORKLOAD: ITS THEORY AND MEASUREMENT. NATO SYMP. ON THEORY & MEAS. OF MENTAL WORKLOAD, VOL. 8.
- 360- MORRIS, NANCY M.; ROUSE, WILLIAM B. (1985). AN EXPERIMENTAL APPROACH TO VALIDATING A THEORY OF HUMAN ERROR IN COMPLEX SYSTEMS. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985.
- 346- MOSIER, TATHLEEN L.; HART, SANDRA G. LEVELS OF INFORMATION PROCESSING IN A FITTS LAW TASK (LIPFITTS).
- 588- MULDER, G.; MULDER-HAJONIDES VAN DER MEULEN, W.R.E.H. (1973). MENTAL LOAD AND THE MEASUREMENT OF HEART RATE VARIABILITY. ERGONOMICS, 16(1), 69-83.
- 646- MULDER, G.; MULDER, L. J. M.; VELDMAN, J. P. B. MENTAL TASKS AS STRESSORS. 30-44.
- 647- MULDER, G.; ATTENTION, EFFORT AND SINUSARRHYTHMIA: HOW FAR ARE WE?. 407-423.
- 649- MULDER, G.; MULDER, L. J. M. (1981). INFORMATION PROCESSING AND CARDIOVASCULAR CONTROL. PSYCHOPHYSIOLOGY, 18(4), 392-401.
- 654- MULDER, G.; MULDER, L. J. M. (1980). COPING WITH MENTAL WORKLOAD. COPING AND HEALTH, PLENUM PUBLISHI, 233-258.
- 664- MULDER, G.; THE HEART OF MENTAL EFFORT - STUDIES IN THE CARDIOVASCULAR PSYCHOPHYSIOLOGY OF MENTAL WORK. 1-205.
- 655- MULDER, G.; MULDER, L. J. M. (1980). TASK - RELATED CARDIOVASCULAR STRESS. ATTENTION AND PERFORMANCE IX, LAWRENCE ERLBAU, 591-606.
- 713- MULDER, G.; (1977). SINUSARRYTHMIA AND MENTAL WORKLOAD. PLENUM PRESS, 327-344.
- 712- MULDER, G.; (1977). MENTAL LOAD, MENTAL EFFORT AND ATTENTION. PLENUM PRESS, 299-326.
- 648- MULDER, L. J. M.; MULDER, G. CARDIOVASCULAR REACTIVITY AND MENTAL WORKLOAD. 1-34.
- 644- MULDER, L. J. M.; MODEL BASED MEASURES OF CARDIOVASCULAR VARIABILITY IN THE TIME - AND THE FREQUENCY DOMAIN. 333-351.
- 311- MURPHY, MILES R.; RANDLE, ROBERT J.; TANNER, TRIEVE A.; FRANKEL, RICHARD M.; HOHUE, JOSEPH A.; LINDE, CHARLOTTE. (1984). A FULL MISSION SIMULATOR STUDY OF AIRCREW PERFORMANCE: THE MEASUREMENT OF CREW COORDINATION AND DECISIONMAKING FACTORS A. PROCEEDINGS 20TH ANNUAL CONFER. ON MANUAL CONTROL, 20TH - 1984, 1-13.



- 348- MURPHY, MILES R.; AWE, CYNTHIA A. (1985). AIRCREW COORDINATION AND DECISIONMAKING: PEER RATINGS OF VIDEO TAPES MADE DURING A FULL MISSION SIMULATION. PROCEEDINGS 21ST ANNUAL CONF. ON MANUAL CONTROL, 21ST - 1985.
- 671- McLUCAS, JOHN L.; DRINKWATER, FRED J.; LEAF, HOWARD W. (1981). REPORT OF THE PRESIDENT'S TASK FORCE ON AIRCRAFT CREW COMPLIMENT. 1-68.
- 586- NAG, P.K.; SEBASTIAN, N.C.; MAVLANKAR, M.G. (1980). OCCUPATIONAL WORKLOAD ON INDIAN AGRICULTURAL WORKERS. ERGONOMICS, 23(2), 91-102.
- 121- NATANI, KIRMACH; GOMER, FRANK E. (1981). ELECTROCORTICAL ACTIVITY AND OPERATOR WORKLOAD: A COMPARISON OF CHANGES IN THE ELECTROENCEPHALOGRAM AND IN EVENT-RELATED. MCDONNELL DOUGLAS REPORT, MDC E2427, 1-32.
- 155- NAVON, DAVID; (1984). RESOURCES - A THEORETICAL SOUP STONE? PSYCHOLOGICAL REVIEW, 91(2), 216-233.
- 536- NAVON, DAVID; GOPHER, DANIEL. (1979). ON THE ECONOMY OF THE HUMAN-PROCESSING SYSTEM. PSYCHOLOGICAL REVIEW, 86(3), 214-235.
- 284- NEATTY, J.; (1979). PUPILLOMETRIC METHODS OF WORKLOAD EVALUATION: PRESENT STATUS AND FUTURE POSSIBILITIES. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 103-110.
- 194- NESHKATI, NAJDEDIN; (1982). A CONCEPTUAL MODEL FOR THE ASSESSMENT OF MENTAL WORKLOAD AND ITS UTILIZATION IN ENHANCING INDUSTRIAL PRODUCTIVITY. LAC/HFS ANNUAL SYMPOSIUM JUNE 5, 1982.
- 735- NICHOLSON, A. N.; HILL, L. E.; BORLAND, R. G.; FERRES, HELEN M. (1970). ACTIVITY OF THE NERVOUS SYSTEM DURING THE LET-DOWN, APPROACH AND LANDING: A STUDY OF SHORT DURATION HIGH WORKLOAD. CLINICAL AVIATION AND AEROSPACE MEDICINE, APRIL, 436-446.
- 750- NICHOLSON, A. N.; HILL, L. E.; BORLAND, R. G.; KRZANOWSKI, W. J. (1973). INFLUENCE OF WORKLOAD ON THE NEUROLOGICAL STATE OF A PILOT DURING THE APPROACH AND LANDING. AEROSPACE MEDICINE, VOL. 44 (2), 146-152.
- 512- NICHOLSON, A.N.; STONE, B.M. (1982). SLEEP AND WAKEFULNESS HANDBOOK FOR FLIGHT MEDICAL OFFICERS. AGARDOGRAPH NO. 270(E), NO. 270(E), 1-83.
- 595- NORTH, R.A.; STACKHOUSER, S.P.; GRAFFUNDER, K. (1979). PERFORMANCE, PHYSIOLOGICAL AND OCULOMETER EVALUATION OF VTOL LANDING DISPLAYS. NASA CONTRACTOR REPORT 3171, NASA-CP-3171.
- 561- NORTH, ROBERT A.; (1986). A WORKLOAD INDEX FOR ITERATIVE CREWSTATION EVALUATION. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, 868-872.

559- NYGREN, THOMAS E.; (1985). AXIOMATIC AND NUMERIC CONJOINT MEASUREMENT: A COMPARISON OF THREE METHODS OFR OBTAINING SUBJECTIVE WORKLOAD (SWAT) RANKING. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, V.2, 878-883.

80- O'DONNEL, ROBERT D.; (1978). BRAIN ELECTRICAL ACTIVITY IN THE ASSESSMENT OF WORKLOAD. ALPA CONFERENCE PROCEEDINGS 1978, 47-67.

271- O'DONNEL, ROBERT D.; (1975). SECONDARY TASK ASSESSMENT OF COGNITIVE WORKLOAD IN ALTERNATIVE COCKPIT CONFIGURATIONS. AGARD CONF. PROCEED - HIGHER MENTAL FUNCTIONING IN, NO. 181, C10+.

332- O'DONNEL, ROBERT D.; EGGEMEIER, F. THOMAS. (1986). WORKLOAD ASSESSMENT METHODOLOGY. HANDBOOK OF PERCEPTION AND HUMAN PERFORMANCE - COG, VOL II.

485- O'DONNEL, ROBERT D.; (1984). THE U.S. AIR FORCE NEUROPHYSIOLOGICAL WORKLOAD TEST BATTERY: CONCEPT AND VALIDATION. AGARD - SUSTAINED INTENSIVE AIR OPERATIONS: PHYSIO, AGARD-CP-338.

248- O'DONNELL, ROBERT D.; (1982). HISTORICAL FOUNDATIONS OF THE AFAMRL WORKLOAD PROGRAM. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 53-67.

672- O'DONNELL, ROBERT D.; BOLLINGER, RALPH; HARTMAN, BRYCE O. (1974). THE EFFECTS OF EXTENDED MISSIONS ON THE PERFORMANCE OF AIRBORNE COMMAND AND CONTROL TEAMS - A FIELD SURVEY. AEROSPACE MEDICAL RESEARCH LAB, AMRI-TR-74-20, 1-31.

786- O'DONNELL, ROBERT D.; (1979). CONTRIBUTIONS OF PSYCHOPHYSIOLOGICAL TECHNIQUES TO AIRCRAFT DESIGN AND OTHER OPERATIONAL PROBLEMS. AGARD REPORT, NO. 224, 1-81.

508- OBERMEIER, L.; ILES, J.E. (1976). USN/FMOD FRG VAK-191B JOINT FLIGHT TEST PROGRAM. NAVAL AIR SYSTEMS COMMAND DEPARTMENT OF THE NAVY, NAVAIR-3R-76.

523- OFFENLOCK, K.; (1977). NEUROPHYSIOLOGICAL ASSESSMENT OF FUNCTIONAL STATES OF THE BRAIN. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A10.

152- OGDEN, GEORGE D.; LEVINE, JERROLD M.; EISNER, ELLEN J. (1979). MEASUREMENT OF WORKLOAD BY SECONDARY TASKS. HUMAN FACTORS, 21(5), 529-548.

651- OKITA, T.; WIJERS, A. A.; MULDER, G.; MULDER, L. J. M. (1985). MEMORY SEARCH AND VISUAL SPATIAL ATTENTION: AN EVENT - RELATED BRAIN POTENTIAL ANALYSIS. ACTA PSYCHOLOGICA, 60, 263-292.

496- ONSTOTT, E.D.; FAULKNER, W.H. (1978). PREDICTION, EVALUATION, AND SPECIFICATION OF CLOSED LOOP AND MULTIAXIS FLYING QUALITIES. AIR FORCE FLIGHT DYNAMICS LABORATORY, AFFDL-TR-78-3, 1-263.

- 749- OPMEER, C. H. J. M.; KROL, J. P. (1973). TOWARDS AN OBJECTIVE ASSESSMENT OF COCKPIT WORKLOAD: I. PHYSIOLOGICAL VARIABLES DURING DIFFERENT FLIGHT PHASES. AEROSPACE MEDICINE, VOL. 44 (5), 527-532.
- 426- PARASURAMAN, RAJA; (1985). EVENT-RELATED BRAIN POTENTIALS AND INTERMODAL DIVIDED ATTENTION. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH, 971-975.
- 597- PARKER, JAMES F.; DUFFY, JACK W.; CHRISTENSEN, DIANE G. (1981). A FLIGHT INVESTIGATION OF SIMULATED DATA-LINK COMMUNICATION DURING SINGLE-PILOT IRF FLIGHT - VOLUME I - EXPERIMENTAL DESIGN. NASA CONTRACTOR REPORT 3461, NASA-CR-3461.
- 718- PARKS, DONALD; (1977). CURRENT WORKLOAD METHODS AND EMERGING CHALLENGES. PLENUM PRESS, 387-416.
- 506- PEARCE, W.E.; (1975). DC-9 SERIES 50 FLIGHT CREW WORKLOAD COMPARISON STUDY. DOUGLAS AIRCRAFT COMPANY, MDC J-4506, 1-18.
- 555- PEIO, KAREN J.; JUNKER, ANDREW M. (1983). VISUALLY EVOKED RESPONSE FROM SUM OF SINES STIMULATION. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFERENCE, V.2, 1093-1098.
- 278- PERELLI, L.P.; (1979). PHYSIOLOGIC ASPECTS OF WORKLOAD/FATIGUE/STRESS. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 13-16.
- 522- PETTYJOHN, F.S.; MCNEIL, R.J.; AKERS, L.A.; FABER, J.M. (1977). USE OF INSPIRATORY MINUTE VOLUMES IN EVALUATION OF ROTARY AND FIXED WING PILOT WORKLOAD. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A9.
- 697- PEW, RICHARD; (1977). SECONDARY TASKS AND WORKLOAD MEASUREMENT. PLENUM PRESS, 23-29.
- 413- PHATAK, ANIL V.; (1983). REVIEW OF MODEL-BASED METHODS FOR PILOT PERFORMANCE AND WORKLOAD ASSESSMENT. NASA - AMES RESEARCH CENTER, NAS2-11318.
- 658- PICKREL, E. W.; MCDONALD, T. A. (1964). QUANTIFICATION OF HUMAN PERFORMANCE IN LARGE, COMPLEX SYSTEMS. HUMAN FACTORS, 6(6), 647-662.
- 85- PICTON, T.W.; HILLYARD, S.A. (1974). HUMAN AUDITORY EVOKED POTENTIALS. II: EFFECTS OF ATTENTION. ELECTROENCEPHALOGRAPHY & CLINICAL NEUROPHYSIOLOGY, 36, 191-199.
- 245- PIRANIAN, A. G.; (1982). THE EFFECTS OF SUSTAINED ACCELERATION, AIRFRAME BUFFET, AND AIRCRAFT FLYING QUALITIES ON TRACKING PERFORMANCE. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 92-101.

681- POND, DANIEL J.; KIMBALL, LAURIE, A. (1986). TASK COMPLEXITY AND SUBJECTIVE AROUSAL. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 69-71.

86- POON, LEONARD W.; THOMPSON, LARRY W.; MARSH, GAIL R. (1976). AVERAGE EVOKED POTENTIAL CHANGES AS A FUNCTION OF PROCESSING COMPLEXITY. PSYCHOPHYSIOLOGY, 13(1), 43-49.

147- POPE, S.; BOWLES, R.L. (1982). A PROGRAM FOR ASSESSING PILOT MENTAL STATE IN FLIGHT SIMULATORS. AIAA 20TH AEROSPACE SCIENCES MEETING, 1-15.

769- POTTER, SCOTT S.; ACTON, WILLIAM H. (1985). RELATIVE CONTRIBUTIONS OF SWAT DIMENSIONS TO OVERALL SUBJECTIVE WORKLOAD RATINGS. PROCEED. OF THE 3RD SYMP. ON AVIATION PSYCHOLOGY, APRIL.

527- PRICE, HAROLD E.; HONSBERGER, WILLIAM D.; ERENETA, WILLIAM J. (1977). A STUDY OF POTENTIAL ROLES OF SUPERSONIC TRANSPORT CREWS AND SOME IMPLICATIONS FOR THE FLIGHT DECK - VOL.I WORKLOAD, CRE. NASA CONTRACTOR REPORT, NASA CR-561, 1-212.

698- RASMUSSEN, JENS; (1977). REFLECTIONS ON THE CONCEPT OF OPERATOR WORKLOAD. PLENUM PRESS, 29-40.

719- RAULT, A.; (1977). MEASUREMENT OF PILOT WORKLOAD. PLENUM PRESS, 417-444.

261- READER, D.C. WG. CDR; (1982). PHYSIOLOGICAL AND PERFORMANCE PARAMETERS AS INDICES OF PILOT WORKLOAD - AN ANALYSIS OF DATA FROM THE AFTI/F-16 PROJECT. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 322-336.

109- REHMANN, JACQUELINE T.; STEIN, EARL S.; ROSENBERG, BRUCE L. (1983). SUBJECTIVE PILOT WORKLOAD ASSESSMENT. HUMAN FACTORS, 25(3), 297-307.

38- REID, G. B.; (1985). CURRENT STATUS OF THE DEVELOPMENT OF THE SUBJECTIVE WORKLOAD ASSESSMENT TECHNIQUE. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 220-223.

774- REID, G. B.; (1985). THE SYSTEMATIC DEVELOPMENT OF A SUBJECTIVE MEASURE OF WORKLOAD. PROC. OF THE CONG. OF THE INTERN. ERGONOMICS ASS., 9TH, 109-111.

107- REID, GARY B.; EGGEMEIER, F. THOMAS; HYGREN, THOMAS E. (1982). AN INDIVIDUAL DIFFERENCES APPROACH TO SWAT SCALE DEVELOPMENT. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1982, 26TH, 639-642.

224- REID, GARY B.; SHINGLEDECKER, CLARK A.; EGGEMEIER, F. THOMAS. (1981). APPLICATION OF CONJOINT MEASUREMENT TO WORKLOAD SCALE DEVELOPMENT. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1981, 25TH, 522-526.

260- REID, GARY B.; EGGEMEIER, F. THOMAS; SHINGLEDECKER, CLARK A. (1982). SUBJECTIVE WORKLOAD ASSESSMENT TECHNIQUE. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982 281-288.

327- REID, GARY B.; SHINGLEDECKER, CLARK A.; NYGREN, THOMAS E.; EGGEMEIER, F. THOMAS DEVELOPMENT OF MULTIDIMENSIONAL SUBJECTIVE MEASURES OF WORKLOAD. PROCEEDINGS, 403-406.

767- REID, GARY B.; SHINGLEDECKER, CLARK A.; HOCKENBERGER, ROIK L.; QUINN, THOMAS J. (1984). A PROJECTIVE APPLICATION OF THE SUBJECTIVE WORKLOAD ASSESSMENT TECHNIQUE. PROCEED. OF THE NAT. AEROSPACE & ELECTRONICS CONF., MAY 21-25, 824-826.

631- RINGLAND, ROBERT F.; CRAIG, SAMUEL J. (1977). A SURVEY OF PILOTING FACTORS IN FIXED WING AIRCRAFT. AIAA, 77 1147, 239-246.

663- ROBBE, H.W.J.; MULDER, L.J.M.; RUDEL, H.; LANGEWITZ, W.A.; VELDMAN, J.B.P.; MULDER, G ASSESSMENT OF BAROREFLEX SENSITIVITY BY MEANS OF SPECTRAL ANALYSIS. INSTITUTE FOR EXPERIMENTAL PSYCHOLOGY, 1-14.

29- ROBERTSON, M. M.; MESHKATI, N. (1985). ANALYSIS OF THE EFFECTS OF TWO INDIVIDUAL DIFFERENCES CLASSIFICATION MODELS ON EXPERIENCING MENTAL WORKLOAD OF A COMPUTE HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 178-182.

246- ROGERS, DANA B.; FRAZIER, JOHN W. (1982). RESTRAINT CONSIDERATIONS IN DYNAMIC ENVIRONMENTS (ABSTRACT). PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 91.

202- ROHMERT, WALTER; (1977). DETERMINATION OF STRESS AND STRAIN OF AIR TRAFFIC CONTROL OFFICERS. METHODS TO ASSESS WORKLOAD AGARD CONFERENCE PROCEED, NO. 216,

720- ROHMERT, WALTER; (1977). DETERMINATION OF STRESS AND STRAIN AT REAL WORK PLACES: METHODS AND RESULTS OF FIELD STUDIES WITH AIR TRAFFIC CONTROL OFFICERS. PLENUM PRESS, 423-444.

71- ROHRBAUGH, JOHN W.; SYNDULKO, KARL; LINDSLEY, DONALD B. (1977). CORTICAL SLOW NEGATIVE WAVES FOLLOWING NON-PAIRED STIMULI: EFFECTS OF TASK FACTORS. U.C.L.A. RESEARCH PAPER: ONR #N00014-77-0325, 392- ROLFE, J.M.; LINDAY, S.J.E. (1973). BIOLOGICAL MEASURES OF WORKLOAD. PROCEEDINGS - SYMPOSIUM ON FLIGHT DECK ENVIRONMENT, 15TH MARCH 1973,

738- ROMAN, JAMES; OLDER, HARRY; JONES, WALTON L. (1967). FLIGHT RESEARCH PROGRAM: VII. MEDICAL MONITORING OF NAVY CARRIER PILOTS IN COMBAT. AEROSPACE MEDICINE, FEBRUARY, 133-139.

739- ROMAN, JAMES; PERRY, JOHN J.; CARPENTER, LEWIS R.; AWNI, SHAIBAN A. (1967). FLIGHT RESEARCH PROGRAM: VI. HEART RATE AND LANDING ERROR IN RESTRICTED FIELD OF VIEW LANDINGS. AEROSPACE MEDICINE, FEBRUARY, 128-132.

- 755- ROMAN, JAMES; (1965). LONG-RANGE PROGRAM TO DEVELOP MEDICAL MONITORING IN FLIGHT THE FLIGHT RESEARCH PROGRAM-I. AEROSPACE MEDICINE, JUNE, 514-518.
- 756- ROMAN, JAMES; (1965). RISK AND RESPONSIBILITY AS FACTORS AFFECTING HEART RATE IN TEST PILOTS THE FLIGHT RESEARCH PROGRAM-II. AEROSPACE MEDICINE, JUNE, 518-523.
- 742- ROMAN, JAMES A.; (1963). CARDIORESPIRATORY FUNCTIONING IN-FLIGHT. AEROSPACE MEDICINE, APRIL, 322-337.
- 752- ROMAN, JAMES A.; LAMB, LAWRENCE E. (1962). ELECTROCARDIOGRAPHY IN FLIGHT. AEROSPACE MEDICINE, MAY, 527-544.
- 753- ROMAN, JAMES A.; (1963). CARDIORESPIRATORY FUNCTIONING IN-FLIGHT. AEROSPACE MEDICINE, APRIL, 322-336.
- 67- ROSCOE, A. H.; GRIEVE, B. S. (1986). THE IMPACT OF NEW TECHNOLOGY ON PILOT WORKLOAD. SAE TECHNICAL PAPER, REPORT # 861773, 1-8.
- 146- ROSCOE, A. H.; ELLIS, G.A.; CHILES, W.D. (1978). ASSESSING PILOT WORKLOAD. AGARD-OGGRAPH, 233, 1-78.
- 751- ROSCOE, A. H.; (1975). HEART RATE MONITORING OF PILOTS DURING STEEP-GRADIENT APPROACHES. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 46 (11), 1410-1413.
- 283- ROSCOE, A.H.; (1979). HANDLING QUALITIES, WORKLOAD, AND HEART RATE. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 83-92.
- 130- ROSCOE, ALAN H.; (1984). FLIGHT TEST TECHNIQUES. AGARD REPORT - CONFERENCE PROCEEDINGS NO. 373, NO. 373,
- 262- ROSCOE, ALAN H.; (1982). HEART RATE AS AN IN-FLIGHT MEASURE OF PILOT WORKLOAD. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 337-349.
- 614- ROSCOE, ALAN H.; (19). STRESS AND WORKLOAD IN PILOTS. AVIATION, SPACE, AND ENVIROMENTAL MEDICINE, 630-636.
- 761- ROSCOE, ALAN H.; (1976). USE OF PILOT HEART RATE MEASUREMENT IN FLIGHT EVALUATION. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 47 (1), 86-90.
- 484- ROSCOE, ALAN. H.; (1984). ASSESSING PILOT WORKLOAD IN FLIGHT. AGARD - FLIGHT TEST TECHNIQUES, AGARD-CP-373,
- 277- ROTONDO, G.; (1979). SOME CONSIDERATIONS CONCERNING METHODS TO EVALUATE AND ASSESS WORKLOAD IN AIRCRAFT PILOTS. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 11-12.

708- ROUSE, WILLIAM; (1977). APPROACHES TO MENTAL WORKLOAD. PLENUM PRESS, 255-262.

291- RUFFELL SMITH, H. P.; (1979). A SIMULATOR STUDY OF THE INTERACTION OF PILOT WORKLOAD WITH ERRORS VIGILANCE, AND DECISIONS. NASA TECHNICAL MEMORANDUM, 78482, 1-54.

582- SAHA, P.N.; DATTA, S.R.; BANERJEE, P.K.; NARAYANE, G.G. (1979). AN ACCEPTABLE WORKLOAD FOR INDIAN WORKERS. ERGONOMICS, 22(9), 1059-1071.

733- SANDERS, A.F.; (1977). SOME REMARKS ON MENTAL LOAD. PLENUM PRESS, 41-78.

452- SANDERS, MICHAEL G.; SIMMONS, RONALD R.; HOFMANN, MARK A. (1979). VISUAL WORKLOAD OF THE COPILOT/NAVIGATOR DURING TERRAIN FLIGHT. HUMAN FACTORS, 21(3), 369-383.

209- SANDERS, MICHAEL, G.; HOFMAN, MARK A.; SIMMONS, RONALD R.; DEBONIS, J. NICHOLAS (1977). VISUAL WORKLOAD OF THE COPILOT/NAVIGATOR DURING TERRAIN FLIGHT. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEED, NO. 217,

218- SANDERSON, PENELOPE; SUBJECTIVE MENTAL WORKLOAD RATINGS AND ATTRIBUTION PROCESSES: TOWARDS AN INTEGRATED APPROACH.

174- SAVAGE, RICKY E.; WIERWILLE, WALTER W.; CORDES, RICHARD E. (1978). EVALUATING THE SENSITIVITY OF VARIOUS MEASURES OF OPERATOR WORKLOAD USING RANDOM DIGITS AS A SECONDARY TASK. HUMAN FACTORS, 20(6), 649-654.

307- SCHIFLETT, S.G.; (1980). EVALUATION OF A PILOT WORKLOAD ASSESSMENT DEVICE TO TEST ALTERNATE DISPLAY FORMATS AND CONTROL HANDLING QUALITIES. NAVAL AIR TEST CENTER TECHNICAL REPORT, SY-33R-80,

370-SCHIFLETT, SAMUEL G.; LINTON, PAUL M.; SPICUZZA, RONALD J. (1982). EVALUATION OF A PILOT WORKLOAD ASSESSMENT DEVICE TO TEST ALTERNATE DISPLAY FORMANTS AND CONTROL HANDLING QUALITIES. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 222-227.

678- SCHLEGAL, ROBERT E.; GILLILAND, KIRBY; SCHLEGAL, BETINA (1986). DEVELOPMENT OF THE CRITERION TASK SET PERFORMANCE DATA BASE. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 58-60.

34- SCHLEGEL, R. E.; SHINGLEDECKER, C. A. (1985). TRAINING CHARACTERISTICS OF THE CRITERION TASK SET WORKLOAD ASSESSMENT BATTERY. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 770-773.

775- SCHMIDT, DAVID K.; BERRY, DONALD T. (1984). THE INTEGRATED MANUAL AND AUTOMATIC CONTROL OF COMPLEX FLIGHT SYSTEMS. SEMI-ANNUAL STATUS REPORT, JANUARY 31, 1-7.

760- SEKIGUCHI, CHIHARU; HANDA, YASUNOBU; GOTOH, MASARU; KURIHARA, YOSHINORI; NAGASAWA, ARITSUNE; KURODA, ISAO (1978). EVALUATION METHOD OF MENTAL WORKLOAD UNDER FLIGHT CONDITIONS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 49 (7), 920-925.

759- SEKIGUCHI, CHIHARU; HANDA, YASUNOBU; GOTOH, MASARU; KURIHARA, YOSHIHORI; NAGASAWA, YUKOH; KURODA, ISAO (1979). FREQUENCY ANALYSIS OF HEART RATE VARIABILITY UNDER FLIGHT CONDITIONS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 50 (6), 625-634.

709- SENDERS, JOHN; (1977). AXIOMATIC MODELS OF WORKLOAD. PLENUM PRESS, 263-268

164- SENDERS, JOHN W.; GOTTSDANKER, ROBERT M. (1980). ON THE ESTIMATION OF MENTAL WORKLOAD. AIR FORCE OFFICE OF SCIENTIFIC RESEARCH, AFOSR-79-0133, 1-54.

516- SEWARD, R. F.; DAVIES, P. C.; CARPENTER, K. M. (1979). FINAL IRAD REPORT ADVANCED COCKPIT DEVELOPMENT. DOUGLAS AIRCRAFT COMPANY, MDC J7347,

689- SHAFFER, MARGARET T.; SHAFFER, JOHN B.; KUTCHE, GEORGE B. (1986). EMPIRICAL WORKLOAD AND COMMUNICATIONS ANALYSIS OF SCOUT HELICOPTER EXERCISES. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 628-632.

223- SHARIT, JOSEPH; SALVENDY, GAVRIEL (1977). EXTERNAL AND INTERNAL ATTENTIONAL ENVIRONMENTS II. RECONSIDERATION OF THE RELATIONSHIP BETWEEN SINUS ARRHYTHMIA AND INFORMATION LO

581- SHARIT, JOSEPH; SALVENDY, GAVRIEL; DEISENROTH, MICHAEL P. (1982). EXTERNAL AND INTERNAL ATTENTIONAL ENVIRONMENTS I. THE UTILIZATION OF CARDIAC DECELERATORY AND ACCELERATORY RESPONSE DATA. ERGONOMICS, 25(2), 107-120.

241- SHERIDAN, T.B.; SIMPSON, R.W. (1979). TOWARD THE DEFINITION AND MEASUREMENT OF THE MENTAL WORKLOAD OF TRANSPORT PILOTS. DEPARTMENT OF TRANSPORTATION - PROGRAM OF UNIV RES, DOT-OS-70055,

706- SHERIDAN, T.B.; (1977). DEFINITIONS, MODELS AND MEASURES OF HUMAN WORKLOAD. PLENUM PRESS, 219-234.

116- SHERIDAN, THOMAS B.; (1980). MENTAL WORKLOAD: WHAT IS IT? WHY BOTHER WITH IT?. HUMAN FACTORS SOCIETY BULLETIN,

273- SHERIDAN, THOMAS B.; (1979). MENTAL WORKLOAD IN DECISION AND CONTROL. IEEE, 977-982.

387- SHERIDAN, TOM; (1983). THE RELATIONSHIP BETWEEN AIRCRAFT CONTROL, AUTOMATION, MENTAL WORKLOAD, AND PILOT ERROR IN A LABORATORY SIMULATOR. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,



106- SHINGLEDECKER, CLARK A.; CRABTREE, MARK S.; ACTON, WILLIAM H. (1982). STANDARDIZED TESTS FOR THE EVALUATION AND CLASSIFICATION OF WORKLOAD METRICS. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1982, 1982- 26TH, 648-651.

149- SHINGLEDECKER, CLARK A.; (1980). ENHANCING OPERATOR ACCEPTANCE AND NON INTERFERENCE IN SECONDARY TASK MEASURES OF WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980, 1980 - 24TH, 674-677.

177- SHINGLEDECKER, CLARK A.; CRABTREE, MARK S.; EGGEMEIER, F. THOMAS (1985). METHODS AND SYSTEMS FOR MEASURING HUMAN PERFORMANCE CAPABILITIES. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 210-214.

196- SHINGLEDECKER, CLARK A.; CRABTREE, MARK S. (1982). SUBSIDIARY RADIO COMMUNICATIONS TASKS FOR WORKLOAD ASSESSMENT IN R&D SIMULATIONS: 11. TASK SENSITIVITY EVALUATION. AIR FORCE AEROSPACE MEDICAL RESEARCH LABORATORY, AFAMRL-TR-82-57, 1-40.

449- SHINGLEDECKER, CLARK A.; EMBEDDED SECONDARY METHODOLOGY FOR AIRCREW WORKLOAD ASSESSMENT. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET, 415-419.

467- SHINGLEDECKER, CLARK A.; ACTON, WILLIAM H.; CRABTREE, MARK S. (1983). DEVELOPMENT AND APPLICATION OF A CRITERION TASK SET FOR WORKLOAD METRIC EVALUATION. SAE TECHNICAL PAPER SERIES - 2ND AEROSPACE BEHAVIO, 831419,

468- SHINGLEDECKER, CLARK A.; (1980). OPERATOR STRATEGY: A NEGLECTED VARIABLE IN WORKLOAD ASSESSMENT. PAPER PRESENTED APA SYMPOSIUM ON MENTAL WORKLOAD M, APA DIV.21 1980,

483- SHINGLEDECKER, CLARK A.; (1984). BEHAVIORAL AND SUBJECTIVE WORKLOAD METRICS FOR OPERATIONAL ENVIRONMENTS AGARD - SUSTAINED INTENSIVE AIR OPERATIONS: PHYSIO, AGARD-CP-338,

619- SHEVELY, ROBERT J.; (1984). MENTAL WORKLOAD IMPOSED BY A DATA ENTRY TASK. WORKLOAD ANNUAL PROGRESS REPORT, N84-17858, 1-17.

282- SIMMONS R.; SANDERS, M.; KIMBALL, K. (1979). VISUAL PERFORMANCE: A METHOD TO ASSESS WORKLOAD IN THE FLIGHT ENVIRONMENT. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 73-82.

517- SIMMONS, R.R.; KIMBALL, K.A. (1977). METHODOLOGICAL CONSIDERATIONS OF VISUAL WORKLOADS OF HELICOPTER PILOTS. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A1.

455- SIMMONS, RONALD R.; KIMBALL, KENT A. METHODOLOGICAL CONSIDERATIONS OF VISUAL WORKLOADS OF HELICOPTER PILOTS. AGARD - CONF. PROCEED #216 METHODS TO ASSESS WORKLOADS OF HELICOPTER PILOTS. AGARD- CONF. PROCEED # 216 METHODS TO ASSESS WORKLOAD, NO. 216, 1-9.

754- SIMONS, DAVID G.; JOHNSON, ROBERT L. (1965). HEART RATE PATTERNS OBSERVED IN MEDICAL MONITORING. AEROSPACE MEDICINE, JUNE, 504-513.

542- SKELLY, JUNE J.; SIMONS, JOHN C. (1983). SELECTING PERFORMANCE AND WORKLOAD MEASURES FOR FULL-MISSION SIMULATION NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFER, V.2, 1082-1085.

770- SKELLY, JUNE J.; SCHEFF, BRADLEY D. (1985). B-52 WARTIME MISSION SIMULATION: SCIENTIFIC PRECISION IN WORKLOAD ASSESSMENT. AIR FORCE CONF. ON TECH. IN TRAINING & EDUCATION, APRIL 15-19, 105-109.

583- SKIPPER, JULIE H.; RIGGS, CHRISTINE A.; WIERWILLE, WALTER W. (1986). EVALUATION OF DECISION-TREE RATING SCALES FOR MENTAL WORKLOAD ESTIMATION. ERGONOMICS, 29(4), 585-599.

9- SMIT, J.; PILOT WORKLOAD ANALYSIS BASED UPON IN-FLIGHT PHYSIOLOGICAL MEASUREMENTS AND ANALYSIS METHODS. 119-124.

737- SMITH, H. P. RUFFELL, (1967). HEART RATE OF PILOTS FLYING AIRCRAFT ON SCHEDULED AIRLINE ROUTS. AEROSPACE MEDICINE, NOVEMBER, 1117-1119.

729- SMITH, RICHARD; (1981). BOREDOM: A REVIEW. HUMAN FACTORS, 23(3), 329-340.

184- SMITH, RUFFELL H.P.; (1979). A SIMULATOR STUDY OF THE INTERACTION OF PILOT WORKLOAD WITH ERRORS, VIGILANCE, AND DECISIONS. NASA TECHNICAL MEMORANDUM 78482, 78482, 1-54.

721- SOEDE, MATHIJS; (1977). ON MENTAL LOAD AND REDUCED MENTAL CAPACITY: CONCERNING LABORATORY RESEARCH AND FIELD INVESTIGATIONS. PLENUM PRESS, 445-468.

591- SPERANDIO, J.C.; (1979). VARIATION OF OPERATOR'S STRATEGIES AND REGULATING EFFECTS ON WORKLOAD. ERGONOMICS, 14(5), 571-577.

418- SPERANDIO, JEAN-CLAUDE; (1978). THE REGULATION OF WORKING METHODS AS A FUNCTION OF WORKLOAD AMONG AIR TRAFFIC CONTROLLERS. ERGONOMICS, 21(3), 195-202.

762- SPEYER, J. J.; FORT, A. (1982). HUMAN FACTORS APPROACH IN CERTIFICATION FLIGHT TEST. SAE TECHNICAL PAPER SERIES, 821340, 1-30.

783- SPEYER, J. J.; FORT, A. CERTIFICATION EXPERIENCE WITH METHODS FOR MINIMUM CREW DEMONSTRATION. AGARD CONFERENCE PROCEEDINGS, NO. 347, 1-31.

53- SPEYER, J.J.; FORT, A. (1983). WORKLOAD ASSESSMENT FOR TWO-MAN CREW CERTIFICATION. 185-200.

183- SPEYER, J.J.; FORT, A. WORKLOAD ASSESSMENT FOR A 300FF CERTIFICATION.

187- SPYKER, D.A.; STACKHOUSE, S.P.; KHALAFALLA, A.S.; MCLANE, R.C.(1971). DEVELOPMENT OF TECHNIQUES FOR MEASURING PILOT WORKLOAD. NASA: CONTRACTOR REPORT CR-1888, CR-1888, 1-105.

349- STAVELAND, LOWELL; HART, SANDRA G.; YEH, YEI-YU (1985). MEMORY AND SUBJECTIVE WORKLOAD ASSESSMENT.PROCEEDINGS 21ST ANNUAL CONF. ON MANUAL CONTROL,21ST - 1985,

225- STEIN, EARL S.;(1984). THE MEASUREMENT OF PILOT PERFORMANCE: A MASTER-JOURNEYMAN APPROACH. U.S. DEPT OF TRANSPORTATION - FED AVIATION ADMIN., DOT/FAACT-83-15,

258- STEIN, EARL S.; BABRY, JOHN;; ROSENBERG, BRUCE (1982). THE ELUSIVE GOAL OF MEASURING PILOT WORKLOAD IN GENERAL AVIATION. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 275-280.

322- STEIN, EARL S.; ROSENBERG, BRUCE L. (1981). THE MEASUREMENT OF PILOT WORKLOAD. FAA - TECHNICAL CENTER, DOT/FAA/CT-82-8,

215- STEININGER, K.; (1977). SUBJECTIVE RATINGS OF FLYING QUALITIES AND PILOT WORKLOAD IN THE OPERATION OF A SHORT HAUL JET TRANSPORT AIRCRAFT. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEED, NO. 217,

594- STEINMETZ, GEORGE G.; (1980). SIMULATION DEVELOPMENT AND EVALUATION OF AN IMPROVED LONGITUDINAL VELOCITY-VECTOR CONTROL-WHEEL STEERING MODE AND ELECTRONIC DISPL.NASA TECHNICAL PAPER 1664, NASA-TP-1664,

493- STOLLINGS, MICHAEL N.; (1984). INFORMATION PROCESSING LOAD OF GRAPHIC VERSUS ALPHANUMERIC WEAPON FORMAT DISPLAYS FOR ADVANCED FIGHTER COCKPITS. AIR FORCE WRIGHT AERONAUTICAL LABORATORIES AFWAL, FWAL-TR-84-3037, 1-76.

294- STONE, G.; GULICK, R. K.; GABRIEL, R. F. (1985). USE OF TASK/TIMELINE ANALYSIS TO ASSESS CREW WORKLOAD. DAC, 7592, 1-16.

435- STONE, G.; REGIS, E.R.;GULICK, R.K. (1980). FINAL REPORT DC-9 SUPER 80/DC-9-50 COMPARATIVE FLIGHT CREW WORKLOAD STUDY. MCDONNELL AIRCRAFT COMPANY REPORT, MDC J9749,

495- STONE, G.; REGIS, E.R.;;GULICK, R.K. (1980). TASK DATA BASE DC-9 SUPER 80/DC-9-50 COMPARATIVE FLIGHT CREW WORKLOAD STUDY CONTINGENCY MODES VOLUME I - D.C.9 SUPER 80. DOUGLAS AIRCRAFT COMPANY TECHNICAL REPORT, RT. MCD J8696,

504- STONE, G.; REGIS, E.R.; GULICK, R.K. (1979). TASK DATA BASE FOR THE DC-9 SUPER 80/DC-9-50 COMPARATIVE FLIGHT CREW NORMAL WORKLOAD ANALYSIS. DOUGLAS AIRCRAFT COMPANY TECHNICAL REPORT, MDC J8537, 1-316.

- 528- STONE, G.; REGIS, E.R.; GULICK, R.K. (1977). DC-9 SUPER 80/DC-9-50 COMPARATIVE FLIGHT CREW NORMAL WORKLOAD ANALYSIS INTERIM REPORT. DOUGLAS AIRCRAFT COMPANY TECHNICAL REPORT, MDC J8536,
- 529- STONE, G.; REGIS, E.R.; GULICK, R.K. (1977). DATA BASE VALIDATION DC-9 SUPER 80/DC-9-50 COMPARATIVE FLIGHT CREW WORKLOAD STUDY. DOUGLAS AIRCRAFT COMPANY TECHNICAL REPORT, MDC J8748,
- 521- STRASSER, H.; (1977). PHYSIOLOGICAL MEASURES OF WORKLOAD - CORRELATIONS BETWEEN PHYSIOLOGICAL PARAMETERS AND OPERATIONAL PERFORMANCE. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A8.
- 714- STRASSER, HELMUT; (1977). MEASUREMENT OF MENTAL WORKLOAD. PLENUM PRESS, 345-348.
- 400- STRAYER, DAVID L.; KRAMER, ARTHUR F. PSYCHOPHYSIOLOGICAL INDICES OF AUTOMATICITY AND ATTENTIONAL RESOURCES. UNIVERSITY OF ILLINOIS - RESEARCH PAPER,
- 166- SULZER, R.L.; COX, W.J.; MOHLER, S.R. (1981) FLIGHT CREWMEMBER WORKLOAD EVALUATION. U.S. DEPARTMENT OF TRANSPORTATION - FED. AVIAT. ADM., DOT/FAA/RD-8221,
- 665- SULZER, R.L.; COX, W.J.; MOHLER, S.R. (1981). FLIGHT CREWMEMBER WORKLOAD EVALUATION. WRIGHT STATE UNIVERSITY SCHOOL OF MEDICINE, DOT/FAA/RD82/21, 1-1T05-11.
- 661- SUNDSROM, JAMES L.; (1980). NASA TLA WORKLOAD ANALYSIS SUPPORT VOLUME 3. SCIENTIFIC AND TECHNICAL INFORMATION OFFICE, 3240, 1-357.
- 784- SUNDSTROM, JAMES L.; (1980). NASA TLA WORKLOAD ANALYSIS SUPPORT: VOL. III - FFD AUTOPILOT SCENARIO VALIDATION DATA. NASA TECHNICAL REPORT, RPT. NO. 3240, 1-10.
- 388- SWINEY, JOHN MAJ.; (1983). THE SUBJECTIVE MEASURE OF WORKLOAD: INDIVIDUAL DIFFERENCES IN THE PERCEPTION OF FACTORS THAT INFLUENCE WORKLOAD. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83.
- 191- TANAKA, KEIJI; BUHARALI, AHMET; SHERIDAN, THOMAS B. (1983). MENTAL WORKLOAD IN SUPERVISORY CONTROL OF AUTOMATED AIRCRAFT. PROCEEDINGS 1983 ANNUAL MANUAL CONTROL MEETING, 1983.
- 419- TEIGER, C; (1978). REGULATION OF ACTIVITY: AN ANALYTICAL TOOL FOR STUDYING WORKLOAD IN PERCEPTUAL MOTOR TASKS. ERGONOMICS, 21(3), 203-213.
- 656- TENNSTEDT, C. R.; (1973). THE PILOT - HIS PROBLEMS AND REQUIREMENTS. FLIGHT DECK ENVIRONMENT AND PILOT WORKLOAD PROCEED, BRN 805323, 1-7.

727- THACKRAY, R.; BAILEY, J.P.; TOUCHSTONE, R.M. (1977). PHYSIOLOGICAL, SUBJECTIVE, AND PERFORMANCE CORRELATES OF REPORTED BOREDOM & MONOTONY WHILE PERFORMING A SIMULATED RADA. DEPT. OF TRANSPORTATION FAA AVIATION MEDICINE, 1-9.

217- THORNTON, CRAIG D; AN INVESTIGATION OF PHYSIOLOGICAL AND SUBJECTIVE RATINGS OF MENTAL EFFORT DURING THE AQUISITION OF A SKILL-BASED TASK.

409- THORNTON, D. CRAIG; (1985). AN INVESTIGATION OF THE "VON RESTORFF" PHENOMENON. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 760-764.

77- TOLE, J. R.; STEPHENS, A. T.; HARRIS, R. L.; EPHRATH, A. R. (1982). VISUAL SCANNING BEHAVIOR AND MENTAL WORKLOAD IN AIRCRAFT PILOTS. AVIATION SPACE ENVIRONMENTAL MEDICINE, 53(1), 54-61.

660- TOLE, J. R.; STEPHENS, A. T.; VIVAUDOU, M.; HARRIS, R. L.; EPHRATH, A. (1983). ENTROPY, INSTRUMENT SCAN, AND PILOT WORKLOAD. IEEE CONFERENCE ON SYSTEMS, MAN AND CYBERNETICS, 1-7.

118- TOLE, J.R.; VIVAUDOU, M.; HARRIS, R.L.; EPHRATH, A. (1982). FMP STUDY OF PILOT WORKLOAD: QUANTIFICATION OF WORKLOAD VIA INSTRUMENT SCAN. NASA, CR-169254, 1-6.

255- TOLE, J.R.; STEPHENS, A.T.; HARRIS R.L.; EPHRATH, A. (1982). QUANTIFICATION OF PILOT WORKLOAD VIA INSTURMENT SCAN. PROCEEDINGS WORKLOAD ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 234-251.

502- TOLE, J.R.; STEPHENS, A.T.;VIVAUDOU, M.;EPHRATH, A.; YOUNG, L.R. (1983). VISUAL SCANNING BEHAVIOR AND PILOT WORKLOAD. NASA CONTRACTOR REPORT 3717, REPORT # 3717, 1-41.

179- TOWNSEND, JAMES T.; (1985). TOWARD A DYNAMIC MATHEMATICAL THEORY OF MENTAL WORKLOAD: A PROPOSAL FOR RESEARCH SUBMITTED TO NASA AMES RESEARCH CENTER. BEHAVIORAL INSTITUTE FOR TECHNOLOGY AND SCIENCE, IN.

351- TSANG, PAMELA S.; (1985). CAN PILOTS TIME-SHARE BETTER THAN NON-PILOTS. PROCEEDINGS 3RD SYMPOSIUM ON AVIATION PSYCHOLOGY, 3RD - 1985.

692- TUFANO, DANIEL R.; GWYNNE, THOMAS J. (1986). COCKPIT CURSOR CONTROL: EFFECTS OF TASK LOADING AND CONTROLLER LOCATION. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 642-646.

574- TULGA, M. KAMIL; SHERIDAN, THOMAS B. (1980). DYNAMIC DECISIONS AND WORK LOAD IN MULTITASK SUPERVISORY CONTROL. IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS, SMC-10(5) - MAY, 217-232.

336- TURKSEN, I.B.; MORAY, N.; FULLER, K. A LINGUISTIC RULE-BASED EXPERT SYSTEM FOR MENTAL WORKLOAD. TOWARD THE FACTORY OF THE FUTURE (H.J.BULLINGER H.,

715- URSIN, HOLGER; URSIN, REIDUN (1977). PHYSIOLOGICAL INDICATORS OF MENTAL WORKLOAD. PLENUM PRESS, 349-366.

247- VAN DE GRAAFF, R.C.; (1982). NLR RESEARCH ON PILOT DYNAMICS AND WORKLOAD. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 79-90.

643- VAN DELLEN, H. J.; AASMAN, J.; MULDER, L. J. M.; MULDER, G. (1984). TIME DOMAIN VERSUS FREQUENCY DOMAIN MEASURES OF HEART RATE VARIABILITY. PSYCHOPHYSIOLOGY OF CARDIOVASCULAR CONTROL. METHOD, PLENUM PRESS, 1-29.

645- VELDMAN, J. B. P.; MULDER, L. J. M.; MULDER, G.; VAN DER HEIDE, D. SHORT - TERM COHERENCE BETWEEN BLOOD PRESSURE AND HEART - RATE DURING MENTAL LOADING: AN EXPLORATION IN THE TIME - AND F 391-405.

350- VICENTE, KIM J.; JARCEW, MICHAEL; MORAY, NEVILLE P. (1985). AN INVESTIGATION OF THE MENTAL WORKLOAD ASSOCIATED WITH SKILL-BASED BEHAVIOR. DEPARTMENT OF INDUSTRIAL ENGINEERING - WORKING PAP, 85-3,

28- VIDULICH, M. A.; TSANG, P. S. (1985). ASSESSING SUBJECTIVE WORKLOAD ASSESSMENT: A COMPARISON OF SWAT AND THE NASA-BIPOLAR METHODS. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 71-75.

666- VIDULICH, M.A.; WICKENS, C.D. (1986). CAUSES OF DISSOCIATION BETWEEN SUBJECTIVE WORKLOAD MEASURES AND PERFORMANCE. APPLIED ERGONOMICS, 17(4), 291-296.

730- VIDULICH, M.A.; TSANG, P.S. (1986). TECHNIQUES OF SUBJECTIVE WORKLOAD ASSESSMENT: A COMPARISON OF SWAT AND THE NASA-BIPOLAR METHODS. ERGONOMICS, 29 NO.11, 1385-1398.

141- VIDULICH, MICHAEL D.; WICKENS, CHRISTOPHER D. (1983). PROCESSING PHENOMENA AND THE DISSOCIATION BETWEEN SUBJECTIVE AND OBJECTIVE WORKLOAD MEASURES. OFFICE OF NAVAL RESEARCH - ENGINEERING PSY PROGRAM, 1-39.

776- VINCENTE, KIM J.; THORNTON, D, CRAIG; MORAY, NEVILLE (1986). SPECTRAL ANALYSIS OF SINUS ARRHYTHMIA: A MEASURE OF MENTAL EFFORT. REVISED MANUSCRIPT, 1-31.

778- WAINWRIGHT, W. A.; (1986). FLIGHT TEST EVALUATION OF CREW WORKLOAD FOR AIRCRAFT CERTIFICATION. CEC WORKSHOP IN TRANSPORT OPERATIONS, NOVEMBER 21-24, 1-9.

598- WALLER, MARVIN C.; (1976). AN INVESTIGATION OF CORRELATION BETWEEN PILOT SCANNING BEHAVIOR AND WORKLOAD USING STEPWISE REGRESSION ANALYSIS. NASA TECHNICAL MEMORANDUM 3344, NASA-TM-X-3344,

494- WANNER, JEAN-CLAUDE; (1978). THE MULTILoop CONCEPT OF THE PILOT WORKLOAD AS A BASIS OF FUTURE EXPERIMENTS AND STUDIES. OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPAT, T.P.N'1978-10, 1-16.

22- WARNER, J. S.; ONSTOTT, E. D. (1986). THE PILOT WORKLOAD FACTOR IN AIRCRAFT HANDLING QUALITIES ASSESSMENT. IEEE, 2, 349-354.

771- WARR, DARTANIAN; COLLE, HERBERT A.; REID, GARY B. (1986). A COMPARATIVE EVALUATION OF TWO SUBJECTIVE WORKLOAD MEASURES: SWAT AND THE MODIFIED COOPER HARPER SCALE. PSYCHOLOGY DEPARTMENT OF DEFENSE SYMPOSIUM,

458- WATLER, J.F. JR.; ROWELL, D.W.; JANOSKI, S.S. (1981). CREW WORKLOAD PREDICTION STUDY. AIR FORCE WRIGHT AERONAUTICAL LABORATORIES, AFWAL-TR-81-314,

511- WEBB, WILSE B.; (1983). SLEEP DEPRIVATION AND PERFORMANCE: THE OPTIMUM USE OF LIMITED SLEEP PERIODS. U.S. ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND, DAMD17-80C-0058, 1-3.

726- WEBER, ANNETTA; FUSSLER, C.; O'HANLON, J.F.; GIERER, R.; GRANDJEAN, E.; (1980). PSYCHOPHYSIOLOGICAL EFFECTS OF REPETITIVE TASKS. ERGONOMICS, 23(11), 1033-1046.

568- WEGMANN, HANS M.; HERRMANN, REINHOLD; WINGET, CHARLES M. (1980). BIOINSTRUMENTATION FOR EVALUATION OF WORKLOAD IN PAYLOAD SPECIALISTS: RESULTS OF ASSESS II. ACTA ATRSONAUTICA, 7, 1307-1321.

160- WEINER, J.S.; (1982). THE ERGONOMICS SOCIETY: THE SOCIETY'S LECTURE 1982. ERGONOMICS, 25(11), 953-965.

620- WELDON, MARYSUE; CASPER, PATRICIA; KANTOWITZ, BARRY H. (1984). SECONDARY CHOICE-REACTION TIME AS A FUNCTION OF STIMULUS INFORMATION AND DIMENSIONALITY. WORKLOAD ANNUAL PROGRESS REPORT, N84-17858, 1-19.

415- WELFORD, A.T.; (1978). MENTAL WORKLOAD AS A FUNCTION OF DEMAND, CAPACITY, STRATEGY AND SKILL. ERGONOMICS, 21(3), 151-167.

590- WETHERELL, ANTHONY; (1981). THE EFFICACY OF SOME AUDITORY-VOCAL SUBSIDIEARY TASKS AS MEASURES OF THE MENTAL LOAD ON MALE AND FEMALD DRIVERS. ERGONOMICS, 24(3), 197-214.

662- WEWEINKE, P.H.; (1977). PERFORMANCE AND WORKLOAD ANALYSIS OF IN-FLIGHT HELICOPTER MISSIONS. NATIONAL AEROSPACE LABORATORY NLR THE NETHERLANDS, NLR MP 77013 U, 1-17.

83- WHITE, CARROLL T.; (1968). SOME ASPECTS OF EVOKED CORTICAL RESPONSES. HUMAN FACTORS SOCIETY BULLETIN, 11(5), 1-3.

3- WHITE, R. T.; GAUME, J. G. (1975) MENTAL WORKLOAD ASSESSMENT, III. LABORATORY EVALUATION OF ONE SUBJECTIVE AND TWO PHYSIOLOGICAL MEASURES OF MENTAL WORKLORD DAC REPORT, MDC J7024/01, 1-41.

186- WHITE, R.T.; (1971). TASK ANALYSIS METHODS: REVIEW AND DEVELOPMENT OF TECHNIQUES FOR ANALYZING MENTAL WORKLOAD IN MULTIPLE-TASK SITUATIONS. IRAD TECHNICAL REPORT: ITEM NO. DAC-26-71-R217, DAC-26-71-R217, 1-131.

503- WHITE, R.T.; (1975).MENTAL WORKLOAD ASSESSMENT, I. LABORATORY INVESTIGATION OF DECISION-MAKING AND SHORT-TERM MEMORY IN A MULTIPLE-TASK SITUTATION DOUGLAS AIRCRAFT COMPANY TECHNICAL REPORT, DAC-11-75-R217, 1-23.

352- WHITE, STEPHEN A.; MACKINNON, DAVID P.; LYMAN, JOHN. MODIFIED PETRI NET MODEL SENSITIVITY TO WORKLOAD MANIPULATIONS.

157- WHITE,BOB; (1981). MENTAL WORKLOAD QUANTIFICATION.

8- WICKENS, C. D.; YEH, Y. Y. (1983).THE DISSOCIATION BETWEEN SUBJECTIVE WORKLOAD AND PERFORMANCE: A MULTIPLE RESOURCE APPROACH. HUMAN FACTORS SOCIETY PROCEEDINGS, 27TH, 244-248.

26- WICKENS, C. D.; HEFFLEY, E. F.; KRAMER, A. F.; DONCHIN, E. (1980). THE EVENT-RELATED BRAIN POTENTIAL AS AN INDEX OF ATTENTION ALLOCATION IN COMPLEX DISPLAYS. HUMAN FACTORS SOCIETY PROCEEDINGS, 24TH,297-301.

389- WICKENS, CHRIS; (1983).AN INVESTIGATION OF THE BASIS OF SUBJECTIVE RATINGS OF MENTAL WORKLOAD. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,

81- WICKENS, CHRISTOPHER; (1978). BRAIN ELECTRICAL ACTIVITY AS AN INDEX OF WORKLOAD. ALPA CONFERENCE PROCEEDINGS - 1978, 21-34.

700- WICKENS, CHRISTOPHER; (1977). MEASURES OF WORKLOAD, STRESS AND SECONDARY TASKS. PLENUM PRESS, 79-101.

44- WICKENS, CHRISTOPHER D.; DAVID B. BOLES. (1983). THE LIMITS OF MULTIPLE RESOURCE THEORY: THE ROLE OF TASK CORRELATION/INTEGRATION IN OPTIMAL DISPLAY FORMATTING. OFFICE OF NAVAL RESEARCH, EPL83-5/ONR83-5, 1-18.

30- WICKENS, CHRISTOPHER D.; VIDULICH, MICHAEL; SANDRY-GARZA, DIANNE. PRINCIPLES OF S-C-R COMPATABILITY WITH SPATIAL AND VERBAL TASKS. 299-306.

424- WICKENS, CHRISTOPHER D.; DERRICK, WILLIAM. (1981). WORKLOAD MEASUREMENT AND MULTIPLE RESOURCES. PROCEEDINGS INTERNATIONAL CONF. ON CYNERNETICS AND, 1981, 600-603.

472- WICKENS, CHRISTOPHER D.; DERRICK, WILLIAM;BERRINGER, DENNIS; MICALIZZI, JOHN. (1980). THE STRUCTURE OF PROCESSING RESOURCES: IMPLICATIONS FOR TASK CONFIGURATION AND WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980, 24TH - 1980, 253-256.

474- WICKENS, CHRISTOPHER D.; YEI-YU YEH. (1986). A MULTIPLE RESOURCE MODEL OF WORKLOAD PREDICTION AND ASSESSMENT. IEEE CONFERENCE PROCEEDINGS 1986,



575- WICKENS, CHRISTOPHER D.; KESSEL, COLIN. (1979). THE EFFECTS OF PARTICIPATORY MODE AND TASK WORKLOAD ON THE DETECTION OF DYNAMIC SYSTEM FAILURES. IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS, SMC-9(1)- JAN, 24-34.

559- WICKENS, CHRISTOPHER D.; HYMAN, FRED; DELLINGER, JOHN ; (1986). THE STERNBERG MEMORY SEARCH AS AN INDEX OF PILOT WORKLOAD. ERGONOMICS, 29 NO.11, 1371-1383.

796- WICKENS, CHRISTOPHER D.; HAYMAN, FRED; DELLINGER, JOHN; TAYLOR, HENRY; MEADOR, MARTY. (1986). THE STERNBERG MEMORY SEARCH TASK AS AN INDEX OF PILOT WORKLOAD. ERGONOMICS, VOL. 29 (11), 1371-1383.

731- WIERNER, EARL; CURRY; FAUSTINA; (1984). VIGILANCE AND TASK LOAD: IN SEARCH OF THE INVERTED U. HUMAN FACTORS, 26 NO.2, 215-222.

13- WIERWILLE, W. W.; CONNOR, S. A. (1983). EVALUATION OF 20 WORKLOAD MEASURES USING A PSYCHOMOTOR TASK IN A MOVING-BASE AIRCRAFT SIMULATOR. HUMAN FACTORS, 25(1), 1-16.

14- WIERWILLE, W. W.; CASALI, J. G. (1983). A VALIDATED RATING SCALE FOR GLOBAL MENTAL WORKLOAD MEASUREMENT APPLICATIONS. HUMAN FACTORS SOCIETY PROCEEDINGS, 27TH, 129-133.

19- WIERWILLE, W. W.; (1979). PHYSIOLOGICAL MEASURES OF AIRCREW MENTAL WORKLOAD. HUMAN FACTORS, 21(5), 575-593.

279- WIERWILLE, W. W.; WILLIGES, R.C.; SCHIFLIETT, S.G. (1979). AIRCREW WORKLOAD ASSESSMENT TECHNIQUES. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 19-54.

269- WIERWILLE, W.W.; CONNOR, SIDNEY A. (1982). THE SENSITIVITY OF TWENTY MEASURES OF PILOT MENTAL WORKLOAD IN A SIMULATED ILS TASK. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 150-164.

66- WIERWILLE, WALTER W.; (1982). DETERMINATION OF SENSITIVE MEASURES OF PILOT WORKLOAD AS A FUNCTION OF THE TYPE OF PILOTING TASK. PROCEEDINGS OF THE WORKSHOP ON FLIGHT TESTING TO I, MAY 1982, 471-490.

188- WIERWILLE, WALTER W.; WILLIGES, ROBERT C. (1978). SURVEY AND ANALYSIS OF OPERATOR WORKLOAD ASSESSMENT TECHNIQUES. SYSTEMETRICS TECHNICAL REPORT, S-78-101, 1-206.

173- WIERWILLE, WALTER W.; SKIPPER, JULIE H.; RIEGER, CRHISTINE A. (1984). DECISION TREE RATING SCALES FOR WORKLOAD ESTIMATION: THEME AND VARIATIONS. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984,

243- WIERWILLE, WALTER W.; CASALI, JOHN G. (1983). COMPARATIVE EVALUATION OF TWENTY PILOT WORKLOAD ASSESSMENT MEASURES USING A PSYCHOMOTOR TASK IN A MOVING BASE AIRCRAFT STHE SENSITIVITY & INTRUS. OF MWL EST. TECHQ.IN PIL, IEOR # 8309, 27-62.

367- WIERWILLE, WALTER W.; RAHIMI, MANSOUR; CASALI, JOHN G. (1985). EVALUATION OF 16 MEASURES OF MENTAL WORKLOAD USING A SIMULATED FLIGHT TASK EMPHASIZING MEDIATIONAL ACTIVITY. HUMAN FACTORS, 27(5), 489-502.

390- WIERWILLE, WALTER W.; BORTOLUSSI, MICHAEL. (1983). COMPARATIVE EVALUATION OF WORKLOAD ESTIMATION TECHNIQUES IN PILOTING TASKS. NASA WORKLOAD/PERFORMANCE ASSESSMENT RESEARCH PROG, 1-20-83,

539- WIERWILLE, WALTER W.; RAHIMI, MANSOUR; CASALI, JOHN G. (1983). EVALUATION OF SIXTEEN MEASURES OF MENTAL WORKLOAD USING A SIMULATED FLIGHT TASK EMPHASIZING MEDIATIONAL ACTIVITY. THE SENSITIVITY AND INTRUS. OF MWL EST. TECHNQ. IN, IEOR # 8309, 105-146.

422- WILDERVANCK, C; MULDER, G.; MICHON, J.A. (1978). MAPPING MENTAL LOAD IN CAR DRIVING. ERGONOMICS, 21(3), 225-229.

64- WILLIAMS, KENDRICK, N.; (1982). ASSESSMENT OF RELIABILITY AND VALIDITY FOR THE SYSTEMS OPERABILITY MEASUREMENT ALGORITHM (SOMA). PROCEEDINGS OF THE WORKSHOP ON FLIGHT TESTING TO I, MAY 1982, 289-317.

450- WILLIGES, ROBERT C.; WIERWILLE, WALTER W. (1979). BEHAVIORAL MEASURES OF AIRCREW MENTAL WORKLOAD. HUMAN FACTORS, 21(5), 549-574.

4- WILLIGES, R. C.; WIERWILLE, W. W. (1979). BEHAVIORAL MEASURES OF AIRCREW MENTAL WORKLOAD. HUMAN FACTORS, 21(5), 549-574.

39- WILSON, G. F.; (1985). A NEUROPSYCHOLOGICAL TEST BATTERY FOR WORKLOAD ASSESSMENT. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 224-225.

682- WILSON, GLENN; MCCLOSKEY, KATHY; DAVIS, IRIS. (1986). LINGUISTIC PROCESSING: PHYSIOLOGICAL, PERFORMANCE, AND SUBJECTIVE CORRELATES. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 72-75.

72- WILSON, GLENN F.; O'DONNELL, ROBERT D. (1982). TRANSIENT EVOKED POTENTIAL AND EYE MOVEMENT RECORDINGS DURING SIMULATED EMERGENCIES. PROCEEDINGS OF HUMAN FACTORS SOCIETY -26TH MEETING, 652-653.

120- WILSON, GLENN F.; (1980). STEADY STATE AVERAGE EVOKED POTENTIALS AS A MEASURE OF TRACKING DIFFICULTY. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980, 1980 - 24TH, 678-680.

459- WOLF, JAMES D.; (1978). CREW WORKLOAD ASSESSMENT: DEVELOPMENT OF A MEASURE OF OPERATOR WORKLOAD. AIR FORCE FLIGHT DYNAMICS LABORATORY (FGR), AFFDL-TR-78-165,

669- WOLF, JAMES D.; (1978). CREW WORKLOAD ASSESSMENT - DEVELOPMENT OF A MEASURE OF OPERATOR WORKLOAD. HONEYWELL SYSTEMS AND RESEARCH CENTER, AFFDL-TR-78-165, 1-81.

87- WOODS, DAVID L.; HILLYARD, STEVEN A.; COURCHESNE, ERIC; GALAMBOS, ROBERT. (1980). ELECTROPHYSIOLOGICAL SIGNS OF SPLIT-SECOND DECISION-MAKING. SCIENCE, 207, 655-657.

5- YEH, Y. Y.; WICKENS, C. D. (1984). AN INVESTIGATION OF THE DISSOCIATION BETWEEN SUBJECTIVE MEASURES OF MENTAL WORKLOAD AND PERFORMANCE. NASA REPORT, EPL-84-1, 1-54.

412- YEH, YEI-YU; WICKENS, CHRISTOPHER D. (1985). THE EFFECT OF VARYING TASK DIFFICULTY OF SUBJECTIVE WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 765-769.

423- YOCHITAKE, H.; (1978). THREE CHARACTERISTICS PATTERNS OF SUBJECTIVE FATIGUE SYMPTOMS. ERGONOMICS, 21(3), 231-233.

263- YORK, R.L.; MONTGOMERY, L.D.; PETRO, J.P. (1982). NEW TOOLS FOR ASSESSING AIRCRAFT/PILOT PERFORMANCE. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 396-432.

745- YOSHIOKA, TOSHITADA; ET. AL. (1982). EFFECTS OF RELATIVE METABOLIC RATE AND HEART RATE VARIATION ON THE PERFORMANCE OF FLIGHT ATTENDANTS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, 127-132.

347- ZALESKI, MATHEW; MORAY, NEVILLE. (1985). FITT'S LAW? A TEST OF THE RELATIONSHIP BETWEEN INFORMATION LOAD AND MOVEMENT PRECISION. PROCEEDINGS 21ST ANNUAL CONF. ON MANUAL CONTROLS, 21ST - 1985,.

486- ZEITLIN, LAWRENCE R.; FINKELMAN, JAY M. (1975). RESEARCH NOTE: SUBSIDIARY TASK TECHNIQUES OF DIGIT GENERATION AND DIGIT RECALL AS INDIRECT MEASURES OF OPERATOR LOADING. HUMAN FACTORS, 17(2), 218-220.

691- ZENYUH, JOHN P.; REISING, JOHN M. (1986). A COMPARISON OF THREE METHODS FOR CONTROLLING AIRCRAFT SYSTEMS. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 638-641.

USAF/FAA REVIEW OF WORKLOAD MEASUREMENT METHODS:  
VALIDITY, RELIABILITY, AND APPLICABILITY

February 24 and 25, 1987

LISTING OF REFERENCES  
BY ARTICLE NUMBER

This is a listing of articles cited in the Fact Matrices  
arranged numerically by article number.

3- WHITE, R. T.; GAUME, J. G. (1975). MENTAL WORKLOAD ASSESSMENT, III. LABORATORY EVALUATION OF ONE SUBJECTIVE AND TWO PHYSIOLOGICAL MEASURES OF MENTAL WORKLOAD. DAC REPORT, MDC J7024/01, 1-41.

5- YEH, Y. Y.; WICKENS, C. D. (1984). AN INVESTIGATION OF THE DISSOCIATION BETWEEN SUBJECTIVE MEASURES OF MENTAL WORKLOAD AND PERFORMANCE. NASA REPORT, EPL-84-1, 1-54.

8- WICKENS, C. D.; YEH, Y. Y. (1983). THE DISSOCIATION BETWEEN SUBJECTIVE WORKLOAD AND PERFORMANCE: A MULTIPLE RESOURCE APPROACH. HUMAN FACTORS SOCIETY PROCEEDINGS, 27TH, 244-248.

13- WIERWILLE, W. W.; CONNOR, S. A. (1983). EVALUATION OF 20 WORKLOAD MEASURES USING A PSYCHOMOTOR TASK IN A MOVING-BASE AIRCRAFT SIMULATOR. HUMAN FACTORS, 25(1), 1-16.

15- CASALI, J. G.; WIERWILLE, W. W. COMMUNICATIONS-IMPOSED PILOT WORKLOAD: A COMPARISON OF SIXTEEN ESTIMATION TECHNIQUES. VIRGINIA POLYTECHNIC INSTITUTE, 223-235.

16- CASALI, J. G.; WIERWILLE, W. W. (1984). ON THE MEASUREMENT OF PILOT PERCEPTUAL WORKLOAD: A COMPARISON OF ASSESSMENT TECHNIQUES ADDRESSING SENSITIVITY AND INTRUSION ISSUES. ERGONOMICS, 27(10), 1033-1050.

17- KANTOWITZ, BARRY H.; HART, SANDRA G.; BORTOLUSSI, MICHAEL R. (1983). MEASURING PILOT WORKLOAD IN A MOVING-BASE SIMULATOR: I. ASYNCHROLOUS SECONDARY CHOICE-REACTION TASK. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 27TH, 319-322.

23- EPHRATH, A. R.; TOLK, J. N.; STEPHENS, A. T.; YOUNG, L. R. (1980). INSTRUMENT SCAN-IS IT AN INDICATOR OF THE PILOT'S WORKLOAD?. HUMAN FACTORS SOCIETY PROCEEDINGS, 24TH, 257-258.

28- VIDULICH, M. A.; TSANG, F. S. (1985). ASSESSING SUBJECTIVE WORKLOAD ASSESSMENT: A COMPARISON OF SWAT AND THE NASA-BIPOLAR METHODS. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 71-75.

29- ROBERTSON, M. M.; MESKATI, N. (1985). ANALYSIS OF THE EFFECTS OF TWO INDIVIDUAL DIFFERENCES CLASSIFICATION MODELS ON EXPERIENCING MENTAL WORKLOAD OF A COMPUTER GENERATE. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 178-182.

30- WICKENS, CHRISTOPHER D.; VIDULICH, MICHAEL; SANDRY-GARZA, DIANNE. PRINCIPLES OF G-G-E COMPARABILITY WITH SPATIAL AND VERBAL TASKS. 299-306.

32- HORST, R. L.; MUNSON, R. C.; RUCHKIN, D. S. (1984). EVENT-RELATED POTENTIAL INDICES OF WORKLOAD IN A SINGLE TASK PARADIGM. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 727-731.

33- HART, S. G.; HARTER, G. E.; LESTER, P. T. (1984). INFLIGHT EVALUATION OF FOUR MEASURES OF PILOT WORKLOAD. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 241-249.

34- SCHLEGEL, R. E.; SHINGLEDECKER, C. A. (1985). TRAINING CHARACTERISTICS OF THE CRITERION TASK SET WORKLOAD ASSESSMENT BATTERY. HUMAN FACTORS SOCIETY PROCEEDINGS, 29TH, 770-773.

40- HART, S. G.; SELLERS, J. J.; GUTHART, G. (1984). THE IMPACT OF RESPONSE SELECTION AND RESPONSE EXECUTION DIFFICULTY ON THE SUBJECTIVE EXPERIENCE OF WORKLOAD. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 732-736.

41- CRABTREE, M. S.; BATEMAN, R. P.; ACTON, W. H. (1984). BENEFITS OF USING OBJECTIVE AND SUBJECTIVE WORKLOAD MEASURES. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 950-953.

42- EGGEMEIER, F. T.; MELVILLE, B. E.; CRABTREE, M. S. (1984). THE EFFECT OF INTERVEINING TASK PERFORMANCE ON SUBJECTIVE WORKLOAD RATINGS. HUMAN FACTORS SOCIETY PROCEEDINGS, 28TH, 954-958.

53- SPEYER, J.J.; FORT, A. (1983). WORKLOAD ASSESSMENT FOR TWO-MAN CREW CERTIFICATION. 185-200.

58- GALANTER, EUGENE; HOCHBERG, JULIAN. BEHAVIORAL INDICATORS OF PILOT WORKLOAD. 243-252.

60- COTE, DAVID O.; KRUEGER, GERALD P.; SIMMONS, RONALD R. HELICOPTER COPILOT WORKLOAD DURING NAP-OF-THE-EARTH FLIGHT. 289-298.

64- WILLIAMS, KENDRICK, N. (1982). ASSESSMENT OF RELIABILITY AND VALIDITY FOR THE SYSTEMS OPERABILITY MEASUREMENT ALGORITHM (SOMA). PROCEEDINGS OF THE WORKSHOP ON FLIGHT TESTING TO I, MAY, 289-317.

65- CROMBIE, ROBERT B. (1982). REFLECTIONS ON THE EFFECTS OF VEHICLE DYNAMICS AND TASK DIFFICULTY ON COOPER-HARPER PILOT OPINION RATINGS, TASK PERFORMANCE. PROCEEDINGS OF THE WORKSHOP ON FLIGHT TESTING TO I, MAY, 102-113.

66- WIERWILLE, WALTER W. (1982). DETERMINATION OF SENSITIVE MEASURES OF PILOT WORKLOAD AS A FUNCTION OF THE TYPE OF PILOTING TASK. PROCEEDINGS OF THE WORKSHOP ON FLIGHT TESTING TO I, MAY, 471-490.

67- ROSCOE, A. H.; GRIEVE, B. S. (1986). THE IMPACT OF NEW TECHNOLOGY ON PILOT WORKLOAD. SAE TECHNICAL PAPER, REPORT # 861773, 1-8.

69- KESSEL, C. J.; BRICKNER, M.; ALLON, Z.; SEIDMANN, A. DIGITAL MODELLING OF PILOT WORKLOAD IN HIGH SPEED HIGH PERFORMANCE AIRCRAFT. 279-286.

71- ROHRBAUGH, JOHN W.; SYNDULKO, KARL; LINDSLEY, DONALD B. CORTICAL SLOW NEGATIVE WAVES FOLLOWING NON-PAIRED STIMULI: EFFECTS OF TASK FACTORS. U.C.L.A. RESEARCH PAPER: ONR #N00014-77-0325.

72- WILSON, GLENN F.; O'DONNELL, ROBERT D. (1982). TRANSIENT EVOKED POTENTIAL AND EYE MOVEMENT RECORDINGS DURING SIMULATED EMERGENCIES. PROCEEDINGS OF HUMAN FACTORS SOCIETY -26TH MEETING, 652-653.

73- ISREAL, JACK B.; WICKENS, CHRISTOPHER D.; CHESNEY, GREGORY L.; DONCHIN, EMANUEL. (1980). THE EVENT-RELATED BRAIN POTENTIAL AS AN INDEX OF DISPLAY-MONITORING WORKLOAD. HUMAN FACTORS, 22(2), 211-224.

77- TOLE, J. R.; STEPHENS, A. T.; HARRIS, R. L.; EPHRATH, A. R. (1982). VISUAL SCANNING BEHAVIOR AND MENTAL WORKLOAD IN AIRCRAFT PILOTS. AVIATION SPACE ENVIRONMENTAL MEDICINE, 53(1), 54-61.

86- POON, LEONARD W.; THOMPSON, LARRY W.; MARSH, GAIL R. (1976). AVERAGE EVOKED POTENTIAL CHANGES AS A FUNCTION OF PROCESSING COMPLEXITY. PSYCHOPHYSIOLOGY, 13(1), 43-49.

88- COOPER, R.; MCCALLUM W.C.; NEWTON, P. ; PAPAKOSTOPOULOS, D.; POCOCK, P.V.; WARREN, W.J. (1977). CORTICAL POTENTIALS ASSOCIATED WITH THE DETECTION OF VISUAL EVENTS. SCIENCE, 196, 74-77.

93- HART, SANDRA G.; CHILDRESS, MARY E.; HAUSER, JAN R. (1982). INDIVIDUAL DEFINITIONS OF THE TERM "WORKLOAD". PROCEEDINGS - PSYCHOLOGY OF THE DOD SYMPOSIUM 1982, 1982.

94- EGGEMEIER, F. THOMAS; CRABTREE, MARK S.; ZINGG, JENNIFER J.; REID, GARY B.; SHINGLEDECKER, CLARK A. (1982). SUBJECTIVE WORKLOAD ASSESSMENT IN A MEMORY UPDATE TASK. PROCEEDINGS OF HUMAN FACTORS SOCIETY 26TH ANN.MEET, 1982 - 26TH, 643-647.

95- CHILDRESS, MARY E.; HART, SANDRA G.; BORTOLUSSI, MICHAEL R. (1982). THE RELIABILITY AND VALIDITY OF FLIGHT TASK WORKLOAD RATINGS. PROCEEDINGS OF HUMAN FACTORS SOCIETY 26TH ANN.MEET, 1982-26TH.

97- HART, SANDRA G., BORTOLUSSI, MICHAEL R. (1983). PILOT ERRORS AS A SOURCE OF WORKLOAD. PROCEEDINGS 2ND SYMPOSIUM ON AVIATION PSYCHOLOGY, 1983.

98- HOGAN, JOYCE C.; FLEISHMAN, EDWIN A. (1979). AN INDEX OF PHYSICAL EFFORT REQUIRED IN HUMAN TASK PERFORMANCE. JOURNAL OF APPLIED PSYCHOLOGY, 64(2), 197-204.

100- HELM, WADE R. (1981). PSYCHOMETRIC MEASURES OF TASK DIFFICULTY UNDER VARYING LEVELS OF INFORMATION LOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1981, 1981 - 25TH, 518-521.

101- GUNNING, DAVID. (1978). TIME ESTIMATION AS A TECHNIQUE TO MEASURE WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1978, 41-45.

102- GOPHER, DANIEL; BRAUNE, ROLF. (1983). ON THE PSYCHOPHYSICS OF WORKLOAD: WHY BOTHER WITH SUBJECTIVE MEASURES?. PROCEEDINGS ANNUAL AVIATION PSYCHO SYMPOS, 2ND, 253-268.

103- ELLIS, G.A. (FLT.LT.); ROSCOE, A.H. (1982). THE AIRLINE PILOT'S VIEW OF FLIGHT DECK WORKLOAD: A PRELIMINARY STUDY USING A QUESTIONNAIRE. ROYAL AIRCRAFT ESTABLISHMENT TECHNICAL MEMORANDUM, FS(B) 465 -1982.

109- REHMANN, JACQUELINE T.; STEIN, EARL S.; ROSENBERG, BRUCE L. (1983). SUBJECTIVE PILOT WORKLOAD ASSESSMENT. HUMAN FACTORS, 25(3), 297-307.

112- BOYD, STEPHEN F. THE USE OF CONJOINT ANALYSIS FOR INTERVAL SUBJECTIVE SCALING OF MENTAL WORKLOAD.

115- DERRICK, WILLIAM L. (1981). THE RELATIONSHIP BETWEEN PROCESSING RESOURCE AND SUBJECTIVE DIMENSIONS OF OPERATOR WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1981, 1981 - 25TH, 532-536.

117- LINDHOLM, ERNEST; CHEATHAM, CARY M. (1983). AUTONOMIC ACTIVITY AND WORKLOAD DURING LEARNING OF A SIMULATED AIRCRAFT CARRIER LANDING TASK. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, MAY, 435-439.

118- TOLE, J.R.; VIVAUDOU, M.; HARRIS, R.L.; EPHRATH, A. (1982). FMP STUDY OF PILOT WORKLOAD: QUANTIFICATION OF WORKLOAD VIA INSTRUMENT SCAN. NASA, CR-169254, 1-6.

120- WILSON, GLENN F. (1980). STEADY STATE AVERAGE EVOKED POTENTIALS AS A MEASURE OF TRACKING DIFFICULTY. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980, 1980 - 24TH, 678-680.

121- NATANI, KIRMACH; GOMER, FRANK E. (1981). ELECTROCORTICAL ACTIVITY AND OPERATOR WORKLOAD: A COMPARISON OF CHANGES IN THE ELECTROENCEPHALOGRAM AND IN EVENT-RELATED. MCDONNELL DOUGLAS REPORT, MDC E2427, 1-32.

130- ROSCOE, ALAN H. (1984). FLIGHT TEST TECHNIQUES. AGARD REPORT - CONFERENCE PROCEEDINGS NO. 373, NO. 373.

131- GOPHER, DANIEL; BRAUNE, ROLF. (1984). ON THE PSYCHOPHYSICS OF WORKLOAD: WHY BOTHER WITH SUBJECTIVE MEASURE?. HUMAN FACTORS, 26(5), 519-532.

134- LINDHOLM, ERNEST; CHEATHAM, CARY; KORIATH, JOHN. (1984). PSYCHOLOGICAL ASSESSMENT OF AIRCRAFT PILOT WORKLOAD IN SIMULATED LANDING AND SIMULATED HOSTILE THREAT ENVIRONMENTS. DTIC - DEFENSE LOGISTICS AGENCY - TECHNICAL REPORT.

135- DERRICK, WILLIAM L.; WICKENS, CHRISTOPHER D. (1984). A MULTIPLE PROCESSING RESOURCE EXPLANATION OF THE SUBJECTIVE DIMENSIONS OF OPERATOR WORKLOAD. DTIC - DEFENSE LOGISTICS AGENCY - TECHNICAL REPORT.



136- MADMI, AZAD M.; SCOPP, RICHARD I.; CHU, YEE-YEEN; PURCETT, DENIS D. (1984). OPERATOR ALERTNESS/ WORKLOAD ASSESSMENT USING STOCHASTIC MODEL-BASED ANALYSIS OF MYOELECTRIC SIGNALS. DTIC - DEFENSE LOGISTICS AGENCY - TECHNICAL REPORT.

139- KRAMER, ARTHUR R.; WICKENS, CHRISTOPHER D.; DONCHIN, EMANUEL. (1983). AN ANALYSIS OF THE PROCESSING REQUIREMENTS OF A COMPLEX PERCEPTUAL-MOTOR TASK. HUMAN FACTORS, 25(6), 597-612.

141- VIDULICH, MICHAEL D.; WICKENS, CHRISTOPHER D. (1983). PROCESSING PHENOMENA AND THE DISSOCIATION BETWEEN SUBJECTIVE AND OBJECTIVE WORKLOAD MEASURES. OFFICE OF NAVAL RESEARCH - ENGINEERING PSY PROGRAM, 1-39.

144- BERG, SCOTT L.; SHERIDAN, THOMAS B. (1984). INTERIM REPORT: MEASURING WORKLOAD DIFFERENCES BETWEEN SHORT-TERM MEMORY AND LONG-TERM MEMORY SCENARIOS IN A SIMULATED FLIGHT ENVIR. MAN-MACHINE SYSTEMS LABORATORY - MIT/NASA AMES R.C, NAG 2-227.

148- DAMOS, DIANE L.; LINTERN, GAVAN. (1980). A COMPARISON OF THE PREDICTIVE VALIDITIES OF SINGLE- AND DUAL-TASK MEASURES. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980, 1980 - 24TH, 245-248.

150- CHILES, W. DEAN; JENNINGS, ALAN E.; ALLUISI, EARL A. (1979). MEASUREMENT AND SCALING OF WORKLOAD IN COMPLEX PERFORMANCE. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE 1979, APRIL, 376-381.

151- HICKS, THOMAS G.; WIERWILLE, WALTER W. (1979). COMPARISON OF FIVE MENTAL WORKLOAD ASSESSMENT PROCEDURES IN A MOVING-BASE DRIVING SIMULATOR. HUMAN FACTORS, 21(2), 129-143.

156- DERRICK, WILLIAM L. (1983). EXAMINATION OF WORKLOAD MEASURES WITH SUBJECTIVE TASK CLUSTERS. PROCEEDINGS HUMAN FACTORS SOCIETY, 27TH, 134-138.

158- KANTOWITZ, BARRY H.; HART, SANDRA G.; BORTOLUSSI, MICHAEL R.; SHIVELY, ROBERT J.; KANTOWITZ, SUSAN C. (1984). MEASURING PILOT WORKLOAD IN A MOVING-BASE SIMULATOR; II. BUILDING LEVELS OF WORKLOAD. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.

159- BERG, SCOTT L.; SHERIDAN, THOMAS B. (1984). MEASURING WORKLOAD DIFFERENCES BETWEEN SHORT-TERM MEMORY AND LONG-TERM MEMORY SCENARIOS IN A SIMULATED FLIGHT ENVIRONMENT. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.

161- CASALI, JOHN G.; WIERWILLE, WALTER W. (1983). COMMUNICATION-IMPOSED PILOT WORKLOAD: A COMPARISON OF SIXTEEN ESTIMATION TECHNIQUES. PROCEEDINGS OF 2ND ANN. SYMPOSIUM ON AVIATION PSYC, 1983.

172- MILLER, RONALD G.; HART, SANDRA G. (1984). ASSESSING THE SUBJECTIVE WORKLOAD OF DIRECTIONAL ORIENTATION TASKS. PROCEEDINGS OF 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.

173- WIERWILLE, WALTER W.; SKIPPER, JULIE H.; RIEGER, CRHISTINE A. (1984). DECISION TREE RATING SCALES FOR WORKLOAD ESTIMATION: THEME AND VARIATIONS. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.

174- SAVAGE, RICKY E.; WIERWILLE, WALTER W.; CORDES, RICHARD E. (1978). EVALUATING THE SENSITIVITY OF VARIOUS MEASURES OF OPERATOR WORKLOAD USING RANDOM DIGITS AS A SECONDARY TASK. HUMAN FACTORS, 20(6), 649-654.

175- CASALI, JOHN G.; WIERWILLE, WALTER W. (1983). A COMPARISON OF RATING SCALE, SECONDARY-TASK, PHYSIOLOGICAL, AND PRIMARY-TASK WORKLOAD ESTIMATION TECHNIQUES IN A SIMULATED FLIGHT. HUMAN FACTORS, 25(6), 623-641.

180- ASIALA, CARL F.; LOY, SUSAN L.; BULL, RICHARD F.; FITZGERALD, JOE A. (1981). PILOT WORKLOAD ASSESSMENT. DTIC - DEFENSE LOGISTICS AGENCY.

183- SPEYER, J.J.; FORT, A.P. WORKLOAD ASSESSMENT FOR A 300FF CERTIFICATION.

184- SMITH, RUFFELL H.P. (1979). A SIMULATOR STUDY OF THE INTERACTION OF PILOT WORKLOAD WITH ERRORS, VIGILANCE, AND DECISIONS. NASA TECHNICAL MEMORANDUM 78482, 78482, 1-54.

185- HART, SANDRA G.; BATTISTE, VERNOL; LESTER, PATRICK T. (1984). POPCORN: A SUPERVISORY CONTROL SIMULATION FOR WORKLOAD AND PERFORMANCE RESEARCH. PROCEEDINGS 20TH ANNUAL MANUAL CONTROL MEET. 1984, 20TH - 1984.

187- SPYKER, D.A.; STACKHOUSE, S.P.; KHALAFALLA, A.S.; MCLANE, R.C. (1971). DEVELOPMENT OF TECHNIQUES FOR MEASURING PILOT WORKLOAD. NASA: CONTRACTOR REPORT CR-1888, CR-1888, 1-105.

191- TANAKA, KEIJI; BUHARALI, AHMET; SHERIDAN, THOMAS B. (1983). MENTAL WORKLOAD IN SUPERVISORY CONTROL OF AUTOMATED AIRCRAFT. PROCEEDINGS 1983 ANNUAL MANUAL CONTROL MEETING, 1983.

196- SHINGLEDECKER, CLARK A.; CRABTREE, MARK S. (1982). SUBSIDIARY RADIO COMMUNICATIONS TASKS FOR WORKLOAD ASSESSMENT IN R&D SIMULATIONS: 11. TASK SENSITIVITY EVALUATION. AIR FORCE AEROSPACE MEDICAL RESEARCH LABORATORY, AFAMRL-TR-82-57, 1-40.

198- BARNES, JOHN A. (1977). USE OF EYE-MOVEMENT MEASURES TO ESTABLISH DESIGN PARAMETERS FOR HELICOPTER INSTRUMENT PANELS. METHODS TO ASSESS WORKLOAD AGARD CONFERENCE PROCEE, NO. 216.

209- SANDERS, MICHAEL, G.; HOFMAN, MARK A.; SIMMONS, RONALD R.; DEBONIS, J. NICHOLAS. (1977). VISUAL WORKLOAD OF THE COPILOT/NAVIGATOR DURING TERRAIN FLIGHT. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEED, NO. 217.

210- LOVESEY, E.J. (1977). IN-FLIGHT OF HELICOPTER PILOT ACTIVITY. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEED, NO. 217.

212- BEYER, R. (1977). A STUDY ON PILOT'S WORKLOAD IN HELICOPTER OPERATION UNDER SIMULATED IMC EMPLOYING A FORWARD SENSOR. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEED, NO. 217.

215- STEININGER, K. (1977). SUBJECTIVE RATINGS OF FLYING QUALITIES AND PILOT WORKLOAD IN THE OPERATION OF A SHORT HAUL JET TRANSPORT AIRCRAFT. STUDIES ON PILOT WORKLOAD AGARD CONFERENCE PROCEED, NO. 217.

217- THORNTON, CRAIG D. AN INVESTIGATION OF PHYSIOLOGICAL AND SUBJECTIVE RATINGS OF MENTAL EFFORT DURING THE ACQUISITION OF A SKILL-BASED TASK.

223- SHARIT, JOSEPH; SALVENDY, GABRIEL. (1977). EXTERNAL AND INTERNAL ATTENTIONAL ENVIRONMENTS II. RECONSIDERATION OF THE RELATIONSHIP BETWEEN SINUS ARRHYTHMIA AND INFORMATION LO.

225- STEIN, EARL S. (1984). THE MEASUREMENT OF PILOT PERFORMANCE: A MASTER-JOURNEYMAN APPROACH. U.S. DEPT OF TRANSPORTATION - FED AVIATION ADMIN., DOT/FAACT-83-15.

231- HARRIS, RANDALL L.; GLOVER, BOBBY J. (1985). EFFECTS OF DIGITAL ALTIMETRY ON PILOT WORKLOAD. NASA TECHNICAL MEMORANDUM 86424, 86424, 1-17.

233- ADAMS, JAMES J.; BERGERON, HUGH P. (1952). MEASURED VARIATION IN THE TRANSFER FUNCTION OF A HUMAN PILOT IN SINGLE-AXIS TASKS. NASA TECHNICAL NOTE D-1952, NASA D-1952, 1-56.

234- CRAWFORD, BILLY M.; PEARSON, WILLIAM H.; HOFFMAN, MARK S. (1977). MULTIPURPOSE DIGITAL SWITCHING AND FLIGHT CONTROL WORKLOAD. AEROSPACE MEDICAL RESEARCH LAB - AERO.MED.DIVISION, 1-37.

235- BOYD, STEPHEN P. (1983). ASSESSING THE VALIDITY OF SWAT AS A WORKLOAD MEASUREMENT INSTRUMENT. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1983, 1983- 27TH, 124-128.

236- COLLE, HERBERT A.; DEMAIO, JOSEPH. (1977). MEASUREMENT OF ATTENTIONAL CAPACITY LOAD USING DUAL-TASK PERFORMANCE OPERATING CURVES. AIR FORCE HUMAN RESOURCES LABORATORY, AD A055690, 1-13.

237- HARRIS, D.A.; PEGRAM G.VERNE; HARTMAN, BRYCE O. (1971). PERFORMANCE AND FATIGUE IN EXPERIMENTAL DOUBLE-CREW TRANSPORT MISSIONS. AEROSPACE MEDICINE, SEPTEMBER, 980-985.

240- HARTMAN, B.O.; HALE, H.B.; HARRIS, D.A.; SANFORD, J.F. III. (1974). PSYCHOBIOLOGIC ASPECTS OF DOUBLE-CREW LONG-DURATION MISSION IN C-5 AIRCRAFT. AEROSPACE MEDICINE, OCTOBER, 1149-1153.

243- WIERWILLE, WALTER W.; CASALI, JOHN G. (1983). COMPARATIVE EVALUATION OF TWENTY PILOT WORKLOAD ASSESSMENT MEASURES USING A PSYCHOMOTOR TASK IN A MOVING BASE AIRCRAFT SIMULATOR. THE SENSITIVITY & INTRUS. OF MWL EST. TECHQ. IN PIL, IEOR # 8309, 27-62.

245- PIRANIAN, A. G. (1982). THE EFFECTS OF SUSTAINED ACCELERATION, AIRFRAME BUFFET, AND AIRCRAFT FLYING QUALITIES ON TRACKING PERFORMANCE. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 92-101.

247- VAN DE GRAAFF, R.C. (1982). NLR RESEARCH ON PILOT DYNAMICS AND WORKLOAD. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 79-90.

255- TOLE, J.R.; STEPHENS, A.T.; HARRIS R.L.; EPHRATH, A. (1982). QUANTIFICATION OF PILOT WORKLOAD VIA INSTRUMENT SCAN. PROCEEDINGS WORKLOAD ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 234-251.

257- GULICK, RAMONA. (1982). VALIDATION OF PILOT WORKLOAD ESTIMATES UTILIZING IN-FLIGHT DATA. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY, 254-274.

258- STEIN, EARL S.; BARRY, JOHN; ROSENBERG, BRUCE. (1982). THE ELUSIVE GOAL OF MEASURING PILOT WORKLOAD IN GENERAL AVIATION. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY 1982, 275-280.

261- READER, D.C. WG. CDR. (1982). PHYSIOLOGICAL AND PERFORMANCE PARAMETERS AS INDICES OF PILOT WORKLOAD - AN ANALYSIS OF DATA FROM THE AFTI/F-16 PROJECT. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY, 322-336.

266- GILL, RICHARD T.; WICKENS, CHRISTOPHER. (1982). OPERATOR WORKLOAD AS A FUNCTION OF THE SYSTEM STATE: AN ANALYSIS BASED UPON THE EVENT-RELATED BRAIN POTENTIAL. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 100-107.

267- MORAY, NEVILLE; WATERTON, K. (1982). A FUZZY MODEL OF RATHER HEAVY WORKLOAD. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 120-126.

268- HAUSER, JAN R.; CHILDRESS, MARY E.; HART, SANDRA G. (1982). RATING CONSISTENCY AND COMPONENT SALIENCE IN SUBJECTIVE WORKLOAD ESTIMATION. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 127-149.

269- WIERWILLE, W.W.; CONNOR, SIDNEY A. (1982). THE SENSITIVITY OF TWENTY MEASURES OF PILOT MENTAL WORKLOAD IN A SIMULATED ILS TASK. PROCEEDINGS 18TH CONFERENCE ON MANUAL CONTROL, JUNE 1982, 150-164.

- 271- O'DONNELL, ROBERT D. (1975). SECONDARY TASK ASSESSMENT OF COGNITIVE WORKLOAD IN ALTERNATIVE COCKPIT CONFIGURATIONS. AGARD CONF. PROCEED - HIGHER MENTAL FUNCTIONING IN, NO. 181, C10+.
- 274- HARTZELL, E. JAMES. (1979). HELICOPTER PILOT PERFORMANCE AND WORKLOAD AS A FUNCTION OF NIGHT VISION SYMBOLOLOGIES. IEEE, 995-996.
- 283- ROSCOE, A.H. (1979). HANDLING QUALITIES, WORKLOAD, AND HEART RATE. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 83-92.
- 286- MCKENZIE, R.E.; BUCKLEY, E.P.; SARLANIS, K. (1979). AN EXPLORATORY STUDY OF PSYCHOPHYSIOLOGICAL MEASUREMENT AS INDICATORS OF AIR TRAFFIC CONTROL SECTOR WORKLOAD. AGARDOGRAPH - SURVEY OF METHODS TO ASSESS WORKLOAD, NO. 246, 129+.
- 288- ACTON, WILLIAM H.; CRABTREE, MARK S.; SIMONS, JOHN C. (1983). QUANTIFICATION OF CREW WORKLOAD IMPOSED BY COMMUNICATIONS-RELATED TASKS IN COMMERCIAL TRANSPORT AIRCRAFT. IEEE/SMC.
- 291- RUFFELL SMITH, H. P. (1979). A SIMULATOR STUDY OF THE INTERACTION OF PILOT WORKLOAD WITH ERRORS, VIGILANCE, AND DECISIONS. NASA TECHNICAL MEMORANDUM, 78482, 1-54.
- 294- STONE, G.; GULICK, R. K.; GABRIEL, R. F. (1985). USE OF TASK/TIMELINE ANALYSIS TO ASSESS CREW WORKLOAD. DAC, 7592, 1-16.
- 306- FISK, ARTHUR D.; DERRICK, WILLIAM L.; SCHNEIDER, WALTER. (1983). THE ASSESSMENT OF WORKLOAD: DUAL TASK METHODOLOGY. HUMAN FACTORS SOCIETY PROCEEDINGS, 27TH, 229-233.
- 307- SCHIFLETT, S.G. (1980). EVALUATION OF A PILOT WORKLOAD ASSESSMENT DEVICE TO TEST ALTERNATE DISPLAY FORMATS AND CONTROL HANDLING QUALITIES. NAVAL AIR TEST CENTER TECHNICAL REPORT, SY-33R-80.
- 314- KANTOWITZ, BARRY H.; HART, SANDRA G.; BORTOLUSSI, MICHAEL R.; SHIVELY, ROBERT J.; KANTOWITZ, SUSAN C. (1984). MEASURING PILOT WORKLOAD IN A MOVING-BASE SIMULATOR: II. BUILDING LEVELS OF WORKLOAD. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.
- 317- HART, SANDRA G.; BORTOLUSSI, MICHAEL R. (1984). PILOT ERRORS AS A SOURCE OF WORKLOAD. HUMAN FACTORS, 26(5), 545-556.
- 320- JOHANNSEN, GUNNAR; ROUSE, WILLIAM B. (1983). STUDIES OF PLANNING BEHAVIOR OF AIRCRAFT PILOTS IN NORMAL, ABNORMAL, AND EMERGENCY SITUATIONS. IEEE TRANSACTIONS ON SYSTEMS, MAN, & CYBERNETICS, VOL -SMC 13 #3, 267-278.
- 331- DAMOS, DIANE L. (1984). CLASSIFICATION SYSTEMS FOR INDIVIDUALS DIFFERENCES IN MULTIPLE-TASK PERFORMANCE AND SUBJECTIVE ESTIMATES OF WORKLOAD. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.

338- ALBERY, WILLIAM B.; WARD, SHARON L. (1985). THE EFFECT OF ACCELERATION STRESS ON HUMAN WORKLOAD. AAMRL - AIR FORCE AEROSPACE MEDICAL RESEARCH LAB, AAMRL-TR=85-039.

339- DETRO, STEPHEN D. (1985). SUBJECTIVE ASSESSMENT OF PILOT WORKLOAD IN THE ADVANCED FIGHTER COCKPIT. PROCEEDINGS 3RD SYMPOSIUM ON AVIATION PSYCHOLOGY, 3RD - 1985.

340- KUPERMAN, GILBERT G. (1985). PRO-SWAT APPLIED TO ADVANCED HELICOPTER CREWSTATION CONCEPTS. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 398-402.

341- ANTIN, JONATHAN F.; WIERWILLE, WALTER W. (1984). INSTANTANEOUS MEASURES OF MENTAL WORKLOAD: AN INITIAL INVESTIGATION. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1984, 28TH - 1984, 6-10.

344- BERG, SCOTT L.; SHERIDAN, THOMAS B. (1984). MEASURING WORKLOAD DIFFERENCES BETWEEN SHORT-TERM MEMORY AND LONG-TERM MEMORY SCENARIOS IN A SIMULATED FLIGHT ENVIRONMENT. PROCEEDINGS 20TH ANNUAL CONF. ON MANUAL CONTROL, 20TH - 1984.

346- MOSIER, TATHLEEN L.; HART, SANDRA G. LEVELS OF INFORMATION PROCESSING IN A FITTS LAW TASK (LIPFITTS).

347- ZALESKI, MATHEW; MORAY, NEVILLE. (1985). FITT'S LAW? A TEST OF THE RELATIONSHIP BETWEEN INFORMATION LOAD AND MOVEMENT PRECISION. PROCEEDINGS 21ST ANNUAL CONF. ON MANUAL CONTROLS, 21ST - 1985.

349- STAVELAND, LOWELL; HART, SANDRA G.; YEH, YEI-YU. (1985). MEMORY AND SUBJECTIVE WORKLOAD ASSESSMENT. PROCEEDINGS 21ST ANNUAL CONF. ON MANUAL CONTROL, 21ST - 1985.

350- VICENTE, KIM J.; JARCEW, MICHAEL; MORAY, NEVILLE P. (1985). AN INVESTIGATION OF THE MENTAL WORKLOAD ASSOCIATED WITH SKILL-BASED BEHAVIOR. DEPARTMENT OF INDUSTRIAL ENGINEERING - WORKING PAP, 85-3.

352- WHITE, STEPHEN A.; MACKINNON, DAVID P.; LYMAN, JOHN. MODIFIED PETRI NET MODEL SENSITIVITY TO WORKLOAD MANIPULATIONS.

353- GOPHER, DANIEL; CHILLAG, NELA; ARZI, NIRA. (1985). THE INFLUENCE OF VOLUNTARY EFFORT, CONTEXT, AND ANCHOR TASK, ON THE SUBJECTIVE ESTIMATE OF LOAD. NASA - AMES RESEARCH CENTER - TECHNICAL REPORT, 85-2.

357- BORTOLUSSI, MICHAEL R.; KA2TTWITZ, BARRY H.; HART, SANDRA G. (1985). MEASURING PILOT WORKLOAD IN A MOTION BASE TRAINER: A COMPARISON OF FOUR TECHNIQUES. PROCEEDINGS 3RD BIENNIAL SYMPOSIUM ON AVIATION PSY, 3RD - 1985.

358- BERG, SCOTT L.; SHERIDAN, THOMAS B. (1985). THE IMPACT OF PHYSICAL AND MENTAL TASKS ON PILOT MENTAL WORKLOAD. PROCEEDINGS 21ST ANNUAL CONF. ON MANUAL CONTROL, 21ST - 1985.

367- WIERWILLE, WALTER W.; RAHIMI, MANSOUR; CASALI, JOHN G. (1985). EVALUATION OF 16 MEASURES OF MENTAL WORKLOAD USING A SIMULATED FLIGHT TASK EMPHASIZING MEDIATIONAL ACTIVITY. HUMAN FACTORS, 27(5), 489-502.

370- SCHIFLETT, SAMUEL G.; LINTON, PAUL M.; SPICUZZA, RONALD J. (1982). EVALUATION OF A PILOT WORKLOAD ASSESSMENT DEVICE TO TEST ALTERNATE DISPLAY FORMANTS AND CONTROL HANDLING QUALITIES. PROCEEDINGS WORKSHOP ON FLIGHT TESTING TO IDENTIFY, MAY, 222-227.

372- EGGEMEIER, THOMAS F.; CRABTREE, MARK S.; LAPOINTE, PATRICIA A. (1983). THE EFFECT OF DELAYED REPORT ON SUBJECTIVE RATINGS OF MENTAL WORKLOAD. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 27TH, 139-143.

391- HARRIS, R.L.; TOLE, J.R.; STEPHENS, A.T.; EPHRATH, A.R. (1981). VISUAL SCANNING BEHAVIOR AND PILOT WORKLOAD. FIRST SYMPOSIUM ON AVIATION PSYCHOLOGY - TECHNICAL, APL-1-81, 216-225.

396- CRABTREE, MARK S. (1975). HUMAN FACTORS EVALUATION OF SEVERAL CONTROL SYSTEM CONFIGURATIONS INCLUDING WORK LOAD SHARING WITH FORCE WHEEL STEERING. TECHNICAL REPORT - AIR FORCE FLIGHT DYNAMICS LABOR, AFFDL-TR-75-43.

407- GAUME, J.G.; WHITE, R.T. (1975). MENTAL WORKLOAD ASSESSMENT, II. PHYSIOLOGICAL CORRELATED OF MENTAL WORKLOAD: REPORT OF THREE PRELIMINARY LABORATORY TEST. MCDONNELL DOUGLAS CORPORATION TECHNICAL REPORT, MDC J7023/01.

408- HIGGINS, ARNOLD S.; MERTENS, HENRY W.; MCKENZIE, JESS M.; FUNKHOUSER, GORDON E.; WHITE, MARY ANN; MILBURN, NELDA J. (1982). THE EFFECTS OF PHYSICAL FATIGUE AND ALTITUDE ON PHYSIOLOGICAL, BIOCHEMICAL, AND PERFORMANCE RESPONSES. US DEPARTMENT OF TRANS - FED AVIATION ADMIN., FAA-AM-81-10.

409- THORNTON, D. CRAIG. (1985). AN INVESTIGATION OF THE "VON RESTORFF" PHENOMENON. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 760-764.

411- GOPHER, DANIEL; CHILLAG, NELLA; ARZI, NIRA. (1985). THE PSYCHOPHYSICS OF WORKLOAD - A SECOND LOOK AT THE RELATIONSHIP BETWEEN SUBJECTIVE MEASURES AND PERFORMANCE. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 640-644.

412- YEH, YEI-YU; WICKENS, CHRISTOPHER D. (1985). THE EFFECT OF VARYING TASK DIFFICULTY OF SUBJECTIVE WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 765-769.

424- WICKENS, CHRISTOPHER D.; DERRICK, WILLIAM. (1981). WORKLOAD MEASUREMENT AND MULTIPLE RESOURCES. PROCEEDINGS INTERNATIONAL CONF. ON CYBERNETICS AND, 1981, 600-603.

426- PARASURAMAN, RAJA. (1985). EVENT-RELATED BRAIN POTENTIALS AND INTERMODAL DIVIDED ATTENTION. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1985, 29TH - 1985, 971-975.

427- KRAMER, AURTHUR F.; WICKENS, CHRISTOPHER D. (1985). EVENT-RELATED BRAIN POTENTIALS AND RESOURCE ALLOCATION: FROM DUAL-TASK DECREMENTS TO DUAL-TASK INTEGRALITY. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1095, 29TH - 1985, 966-970.

428- FLORA, CLARENCE C.; KRIECHBAUM, GERHARD K.L.; WILlich, WAYNE. (1969). A FLIGHT INVESTIGATION OF SYSTEMS DEVELOPED FOR REDUCING PILOT WORKLOAD AND IMPROVING TRACKING ACCURACY DURING NOISE-ABATEMENT LAN. NASA CONTRACTOR REPORT: (BOEING) NASA CR-1427, NASA CR-1427.

429- JOHNSTON, DONALD E.; KLEIN, RICHARD H.; HOB, ROGER G. (1976). MANUAL AND AUTOMATIC FLIGHT CONTROL DURING SEVERE TURBULENCE PENETRATION. NASA CONTRACTOR REPORT: (SYSTEMS TECHNOLOGY INC.), NASA CR-2677.

434- HALL, THOMAS J.; PASSEY, GEORGE E.; MEIGHAN, THOMAS W. (1965). PERFORMANCE OF VIGILANCE AND MONITORING TASKS AS A FUNCTION OF WORKLOAD. DEFENSE DOCUMENTATION CENTER DEFENSE SUPPLY AGENCY, AD 615 921.

436- GRESSANG, RANDALL V.; POLLARD, JOSEPH E. (1974). LOW VISIBILITY LANDING PILOT MODELING EXPERIMENT AND DATA, PHASE I. AIR FORCE FLIGHT DYNAMICS LAB - WRIGHT PATTERSON A, AFFDL-TR-75-41.

449- SHINGLEDECKER, CLARK A. EMBEDDED SECONDARY METHODOLOGY FOR AIRCREW WORKLOAD ASSESSMENT. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET, 415-419.

452- SANDERS, MICHAEL G.; SIMMONS, RONALD R.; HOFMANN, MARK A. (1979). VISUAL WORKLOAD OF THE COPILOT/NAVIGATOR DURING TERRAIN FLIGHT. HUMAN FACTORS, 21(3), 369-383.

455- SIMMONS, RONALD R.; KIMBALL, KENT A. METHODOLOGICAL CONSIDERATIONS OF VISUAL WORKLOADS OF HELICOPTER PILOTS. AGARD - CONF. PROCEED #216 METHODS TO ASSESS WORKLOAD, NO. 216, 1-9.

456- MCKENDRY, JAMES M.; HURST, PAUL M. (1971). ADAPTATION TO SPEED STRESS IN AN IMMEDIATE MEMORY TASK. HUMAN FACTORS, 13(6), 543-552.

458- WATLER, J.F. JR.; ROWELL, D.W.; JANOSKI, S.S. (1981). CREW WORKLOAD PREDICTION STUDY. AIR FORCE WRIGHT AERONAUTICAL LABORATORIES, AFWAL-TR-81-314.

459- WOLF, JAMES D. (1978). CREW WORKLOAD ASSESSMENT: DEVELOPMENT OF A MEASURE OF OPERATOR WORKLOAD. AIR FORCE FLIGHT DYNAMICS LABORATORY (FGR), AFFDL-TR-78-165.



465- EGGEMEIER, F. THOMAS; MCGHEE, JENNIFER ZINGG; REID, GARY B. (1983). THE EFFECTS OF VARIATIONS IN TASK LOADING ON SUBJECTIVE WORKLOAD RATINGS SCALES. PROCEEDINGS IEEE 1983 NATIONAL AEROSPACE & ELECTRO, 1983, 1099-1105.

467- SHINGLEDECKER, CLARK A.; ACTON, WILLIAM H.; CRABTREE, MARK S. (1983). DEVELOPMENT AND APPLICATION OF A CRITERION TASK SET FOR WORKLOAD METRIC EVALUATION. SAE TECHNICAL PAPER SERIES - 2ND AEROSPACE BEHAVIO, 831419.

469- GAUME, J.G.; GLENN, J.R. (1972). UTILIZATION OF THE DAC PORTABLE BIOMEDICAL MONITORING SYSTEM (PBMS) IN PILOT WORKLOAD STUDIES. MCDONNELL DOUGLAS REPORT, MDC J5791,

470- ETO, D.K. (1975). EVALUATION OF INTEGRATED FLIGHT CONTROL/WEAPON DELIVERY FUNCTIONS FOR TACTICAL DATA SYSTEMS. AIR FORCE FLIGHT DYNAMICS LABORATORY, AFFDL-TR-75-52.

472- WICKENS, CHRISTOPHER D.; DERRICK, WILLIAM; BERRINGER, DENNIS; MICALIZZI, JOHN. (1980). THE STRUCTURE OF PROCESSING RESOURCES: IMPLICATIONS FOR TASK CONFIGURATION AND WORKLOAD. PROCEEDINGS HUMAN FACTORS SOCIETY ANN. MEET. 1980, 24TH - 1980, 253-256.

483- SHINGLEDECKER, CLARK A.; (1984). BEHAVIORAL AND SUBJECTIVE WORKLOAD METRICS FOR OPERATIONAL ENVIRONMENTS. AGARD - SUSTAINED INTENSIVE AIR OPERATIONS: PHYSIO. AGARD-CP-338.

486- ZEITLIN, LAWRENCE R.; FINKELMAN, JAY M. (1975). RESEARCH NOTE: SUBSIDIARY TASK TECHNIQUES OF DIGIT GENERATION AND DIGIT RECALL AS INDIRECT MEASURES OF OPERATOR LOADING. HUMAN FACTORS, 17(2), 218-220.

490- BELL, PAUL A. (1978). EFFECTS OF NOISE AND HEAT STRESS ON PRIMARY AND SUBSIDIARY TASK PERFORMANCE. HUMAN FACTORS, 20(6), 749-752.

491- GOLDSTEIN, IRWIN L.; DORFMAN, PETER W. (1978). SPEED AND LOAD STRESS AS DETERMINANTS OF PERFORMANCE IN A TIME SHARING TASK. HUMAN FACTORS, 20(5), 603-609.

492- HESS, RONALD A. (1977). PREDICTION OF PILOT OPINION RATINGS USING AN OPTIMAL PILOT MODEL. HUMAN FACTORS, 19(5), 459-475.

493- STOLLINGS, MICHAEL N. (1984). INFORMATION PROCESSING LOAD OF GRAPHIC VERSUS ALPHANUMERIC WEAPON FORMAT DISPLAYS FOR ADVANCED FIGHTER COCKPITS. AIR FORCE WRIGHT AERONAUTICAL LABORATORIES AFWAL, FWAL-TR-84-3037, 1-76.

496- ONSTOTT, E.D.; FAULKNER, W.H. (1978). PREDICTION, EVALUATION, AND SPECIFICATION OF CLOSED LOOP AND MULTIAXIS FLYING QUALITIES. AIR FORCE FLIGHT DYNAMICS LABORATORY, AFFDL-TR-78-3, 1-253.

501- HOH, ROGER H.; BERGERON, HUGH; HINTON, DAVID. PRACTICAL GUIDANCE FOR THE DESIGN OF CONTROLS AND DISPLAYS FOR SINGLE PILOT IFR. SAE PROCEEDINGS, 70-90.

502- TOLE, J.R.; STEPHENS, A.T.; VIVAUDOU, M.; EPHRATH, A.; YOUNG, L.R. (1983). VISUAL SCANNING BEHAVIOR AND PILOT WORKLOAD. NASA CONTRACTOR REPORT 3717, REPORT # 3717, 1-41.

503- WHITE, R.T. (1975). MENTAL WORKLOAD ASSESSMENT, I. LABORATORY INVESTIGATION OF DECISION-MAKING AND SHORT-TERM MEMORY IN A MULTIPLE-TASK SITUATION. DOUGLAS AIRCRAFT COMPANY TECHNICAL REPORT, DAC-11-75-R217, 1-23.

508- OBERMEIER, L.; ILES, J.E. (1976). USN/FMOD FRG VAK-191B JOINT FLIGHT TEST PROGRAM. NAVAL AIR SYSTEMS COMMAND DEPARTMENT OF THE NAVY, NAVAIR-3R-76.

509- MEYER, ROBERT P.; LAVESON, JACK I.; PAPE, GARY L.; EDWARDS, BERNELL J. (1978). DEVELOPMENT AND APPLICATION OF A TASK TAXONOMY FOR TACTICAL FLYING. AIR FORCE HUMAN RESOURCES LAB, AFHRL-TR-78-42.

511- WEBB, WILSE B. (1983). SLEEP DEPRIVATION AND PERFORMANCE: THE OPTIMUM USE OF LIMITED SLEEP PERIODS. U.S. ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND, DAMD17-80C-0058, 1-3.

516- SEWARD, R. F.; DAVIES, P. C.; CARPENTER, K. M. (1979). FINAL IRAD REPORT ADVANCED COCKPIT DEVELOPMENT. DOUGLAS AIRCRAFT COMPANY, MDC J7347.

518- GREEN R.; FLUX, R.; (1977). AUDITORY COMMUNICATION AND WORKLOAD. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD. AGARD-CP-216, A4.

521- STRASSER, H. (1977). PHYSIOLOGICAL MEASURES OF WORKLOAD - CORRELATIONS BETWEEN PHYSIOLOGICAL PARAMETERS AND OPERATIONAL PERFORMANCE. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A8.

524- LANE, N.E.; STREIB, M.I.; WHERRY, R.J. (1977). THE HUMAN OPERATOR SIMULATOR: WORKLOAD ESTIMATION USING A IMULATED SECONDARY TASK. AGARD PROCEEDINGS #216 - METHODS TO ASSESS WORKLOAD, AGARD-CP-216, A11.

529- STONE, G.; REGIS, E.R.; GULICK, R.K. (1977). DATA BASE VALIDATION DC-9 SUPER 80/DC-9-50 COMPARATIVE FLIGHT CREW WORKLOAD STUDY. DOUGLAS AIRCRAFT COMPANY TECHNICAL REPORT, MDC J8748.

530- BIRD, KATHLEEN L. SUBJECTIVE RATING SCALES AS A WORKLOAD ASSESSMENT TECHNIQUE. NASA - AMES RESEARCH CENTER, NAG-217, 33-39.

531- FINKELMAN, JAY M.; GLASS, DAVID C. (1970). REAPPRAISAL OF THE RELATIONSHIP BETWEEN NOISE AND HUMAN PERFORMANCE BY MEANS OF A SUBSIDIARY TASK MEASURE. JOURNAL OF APPLIED PSYCHOLOGY, 54(3), 211-213.

532- HUDDLESTON, H.F.; WILSON, R.V. (1971). AN EVALUATION OF THE USEFULNESS OF FOUR SECONDARY TASKS IN ASSESSING THE EFFECT OF A LAG IN SIMULATED AIRCRAFT DYNAMICS. ERGONOMICS, 14(3), 371-380.

533- MICHON, J.A. (1966). TAPPING REGULARITY AS A MEASURE OF PERCEPTUAL MOTOR LOAD. ERGONOMICS, 9(5), 401-412.

536- NAVON, DAVID; GOPHER, DANIEL. (1979). ON THE ECONOMY OF THE HUMAN-PROCESSING SYSTEM. PSYCHOLOGICAL REVIEW, 86(3), 214-235.

538- CASALI, JOHN G.; WIERWILLE, WALTER W. (1983). EFFECTS ON FOURTEEN WORKLOAD METRICS OF VARIATIONS IN PILOT WORKLOAD IN A SIMULATED FLIGHT EMPHASIZING PERCEPTUAL ACTIVITY. THE SENSITIVITY & INTRUSION OF MWL EST. TECHQ. IN, IEOR # 8309, 63-103.

540- CASALI, JOHN G.; WIERWILLE, WALTER W. (1983). A COMPARATIVE EVALUATION OF RATING SCALE, SECONDARY TASK, PHYSIOLOGICAL, AND PRIMARY TASK WORKLOAD ESTIMATION TECHNIQUES IN A SIMU. THE SENSITIVITY & INTRUS. OF MWL TECHNQ. IN PILOTI, IEOR # 8309, 147-189.

557- KENNER, K.M.; JUNKER, A.M.; LEVISON, W.H. (1985). A LINEAR, DYNAMIC MODEL FOR THE VISUAL-CORTICAL EVOKED RESPONSE SYSTEM. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFER, V.2, 861-867.

559- NYGREN, THOMAS E. (1985). AXIOMATIC AND NUMERIC CONJOINT MEASUREMENT: A COMPARISON OF THREE METHODS OF OBTAINING SUBJECTIVE WORKLOAD (SWAT) RANKINGS. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFER, V.2, 878-883.

560- JUNKER, ANDREW M.; KENNER, KEVIN M.; KLEINMAN, DAVID L.; MCCLURG, TERRENCE D. (1985). COMPARISON OF TRANSIENT AND STEADY STATE CORTICAL EVOKED POTENTIAL. NAECON - NATIONAL AEROSPACE AND ELECTRONICS CONFER, V.2, 854-860.

566- DEIVANAYAGAM, S.; AYOUB, M.M. (1979). PREDICTION OF ENDURANCE TIME FOR ALTERNATING WORKLOAD TASKS. ERGONOMICS, 22(3), 279-290.

567- KOLES, ZOLY J.; FLOR-HENRY, PIERRE. (1981). MENTAL ACTIVITY AND THE E.E.G.: TASK AND WORKLOAD RELATED EFFECTS. MED. & BIOL. ENG. & COMPUT., 19, 185-194.

570- BRIEF, ARTHUR P.; RUDE, DALE E.; RABINOWITZ, SAMUEL. (1983). THE IMPACT OF TYPE A BEHAVIOR PATTERN ON SUBJECTIVE WORK LOAD AND DEPRESSION. JOURNAL OF OCCUPATIONAL BEHAVIOR, 4, 157-164.

574- TULGA, M. KAMIL; SHERIDAN, THOMAS B. (1980). DYNAMIC DECISIONS AND WORK LOAD IN MULTITASK SUPERVISORY CONTROL. IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS, SMC-10(5) - MAY, 217-232.

575- WICKENS, CHRISTOPHER D.; KESSEL, COLIN. (1979). THE EFFECTS OF PARTICIPATORY MODE AND TASK WORKLOAD ON THE DETECTION OF DYNAMIC SYSTEM FAILURES. IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS, SMC-9(1)- JAN, 24-34.

576- BURKE, MICHAEL W.; GILSON, RICHARD D.; JAGINCINSKI, RICHARD J. (1980). MULTI-MODEL INFORMATION PROCESSING FOR VISUAL WORKLOAD RELIEF. ERGONOMICS, 23(10), 961-975.

577- DAMOS, DIANE L. (1984). INDIVIDUAL DIFFERENCES IN MULTIPLE-TASK PERFORMANCE AND SUBJECTIVE ESTIMATES OF WORKLOAD. PERCEPTUAL AND MOTOR SKILLS, 59, 567-580.

580- LEGG, S.J.; HASLAM, D.R. (1984). EFFECT OF SLEEP DEPRIVATION ON SELF-SELECTED WORKLOAD. ERGONOMICS, 27(4), 389-396.

581- SHARIT, JOSEPH; SALVENDY, GAVRIEL; DEISENROTH, MICHAEL P. (1982). EXTERNAL AND INTERNAL ATTENTIONAL ENVIRONMENTS I. THE UTILIZATION OF CARDIAC DECELERATORY AND ACCELERATORY RESPONSE DATA FOR EVAL. ERGONOMICS, 25(2), 107-120.

582- SAHA, P.N.; DATTA, S.R.; BANERJEE, P.K.; NARAYANE, G.G. (1979). AN ACCEPTABLE WORKLOAD FOR INDIAN WORKERS. ERGONOMICS, 22(9), 1059-1071.

583- SKIPPER, JULIE H.; RIEGER, CHRISTINE A.; WIERWILLE, WALTER W. (1986). EVALUATION OF DECISION-TREE RATING SCALES FOR MENTAL WORKLOAD ESTIMATION. ERGONOMICS, 29(4), 585-599.

584- FIBIGER, WALDEMAR; CHRISTENSEN, FRANK; SINGER, GEORGE; KAUFMANN, HEATHER. (1986). MENTAL AND PHYSICAL COMPONENTS OF SAWMILL OPERATIVES' WORKLOAD. ERGONOMICS, 29(3), 363-375.

586- NAG, P.K.; SEBASTIAN, N.C.; MAVLANKAR, M.G. (1980). OCCUPATIONAL WORKLOAD ON INDIAN AGRICULTURAL WORKERS. ERGONOMICS, 23(2), 91-102.

590- WETHERELL, ANTHONY. (1981). THE EFFICACY OF SOME AUDITORY-VOCAL SUBSIDIARY TASKS AS MEASURES OF THE MENTAL LOAD ON MALE AND FEMALE DRIVERS. ERGONOMICS, 24(3), 197-214.

593- MILLER, G. KIMBALL; RILEY, DONALD R. (1978). EVALUATION OF SEVERAL SECONDARY TASKS IN THE DETERMINATION OF PERMISSIBLE TIME DELAYS IN SIMULATOR VISUAL AND MOTION CUE. NASA TECHNICAL PAPER 1214, NASA-TP-1214.

595- NORTH, R.A.; STACKHOUSER, S.P.; GRAFFUNDER, K. (1979). PERFORMANCE, PHYSIOLOGICAL AND OCULOMETER EVALUATION OF VTOL LANDING DISPLAYS. NASA CONTRACTOR REPORT 3171, NASA-CP-3171.

597- PARKER, JAMES F.; DUFFY, JACK W.; CHRISTENSEN, DIANE G. (1981). A FLIGHT INVESTIGATION OF SIMULATED DATA-LINK COMMUNICATION DURING SINGLE-PILOT IRF FLIGHT - VOLUME I - EXPERIMENTAL DESIGN AND IN. NASA CONTRACTOR REPORT 3461, NASA-CR-3461,

598- WALLER, MARVIN C. (1976). AN INVESTIGATION OF CORRELATION BETWEEN PILOT SCANNING BEHAVIOR AND WORKLOAD USING STEPWISE REGRESSION ANALYSIS. NASA TECHNICAL MEMORANDUM 3344, NASA-TM-X-3344.

600- CALLAN, WILLIAM M.; HOUCK, JACOB A.; DICARLO, DANIEL J. (1974). SIMULATION STUDY OF INTRACITY HELICOPTER OPERATIONS UNDER INSTRUMENT CONDITIONS TO CATEGORY I MINIMUMS. NASA TECHNICAL NOTE 7786, NASA-TN-D-7786.

601- HENRY, P.H.; DAVIS, T.Q.; ENGELKEN, E.J.; TRIEBWASSER, H.H.; LANCASTER, M.C. (1974). ALCOHOL-INDUCED PERFORMANCE DECREMENTS ASSESSED BY TWO LINK TRAINER TASKS USING EXPERIENCED PILOTS. AEROSPACE MEDICINE, 45(10), 1180-1189.

605- BROWN, I.D.; POULTON, E.C. MEASURING THE SPARE "MENTAL CAPACITY" OF CAR DRIVERS BY A SUBSIDIARY TASK. ERGONOMICS, 35-40.

606- BROWN, I.D. (1965). A COMPARISON OF TWO SUBSIDIARY TASKS USED TO MEASURE FATIGUE IN CAR DRIVERS. ERGONOMICS, 8, 467-471.

608- BROWN, I.D. MEASURING THE SPARE MENTAL CAPACITY OF CAR DRIVERS BY A SUBSIDIARY AUDITORY TASK. ERGONOMICS, 247-250.

610- BOYCE, P.R. (1974). SINUS ARRHYTHMIA AS A MEASURE OF MENTAL LOAD. ERGONOMICS, 17(2), 177-183.

612- BITTERMAN, M. E.; SOLOWAY, E. (1946). THE RELATION BETWEEN FREQUENCY OF BLINKING AND EFFORT EXPENDED IN MENTAL WORK. JOURNAL OF EDUCATIONAL PSYCHOLOGY, 36, 134-136.

613- GARDNER, RICK M.; BELTRAMO, JANELLE S.; KRINSKY, RICHARD. (1975). PUPILLARY CHANGES DURING ENCODING, STORAGE, AND RETRIEVAL OF INFORMATION. PERCEPTUAL AND MOTOR SKILLS, 41, 951-955.

614- ROSCOE, ALAN H. STRESS AND WORKLOAD IN PILOTS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, 630-636.

615- BOWMAN, JEFFREY S. & VONBECKH, HARALD J. PHYSIOLOGIC AND PERFORMANCE MEASUREMENTS IN SIMULATED AIRBORNE COMBINED STRESS ENVIRONMENTS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, JUNE 1979, 604-608.

616- BURTON, R.R., STORM, W.F.; JOHNSON, LW & LEVERETT JR., S.D. STRESS RESPONSE OF PILOTS FLYING HIGH PERFORMANCE AIRCRAFT DURING AERIAL COMBAT MANEUVERS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, APRIL 1977, 301-307.

617- CLARK, DALE A.; ARNOLD, E. L.; FOULDS, E. L.; BROWN, D. M.; EASTMEAD, D. R.; PARRY, E. M. (1975). SERUM URATE AND CHOLESTEROL LEVELS IN AIR FORCE ACADEMY CADETS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, AUGUST, 1044-1048.

618- BENSON, ALAN J. HUDDLESTON, H.; F. & ROLFE, JOHN M. A PSYCHOPHYSIOLOGICAL STUDY OF COMPENSATORY TRACKING ON A DIGITAL DISPLAY. HUMAN FACTORS, OCT 1965, 457-472.

619- SHIVELY, ROBERT J. (1984). MENTAL WORKLOAD IMPOSED BY A DATA ENTRY TASK. WORKLOAD ANNUAL PROGRESS REPORT, N84-17858, 1-17.

620- WELDON, MARYSUE; CASPER, PATRICIA; KANTOWITZ, BARRY H. (1984). SECONDARY CHOICE-REACTION TIME AS A FUNCTION OF STIMULUS INFORMATION AND DIMENSIONALITY. WORKLOAD ANNUAL PROGRESS REPORT, N84-17858, 1-19.

621- CALDWELL, CHARLES D. (1984). THE EFFECTS OF HEAT AND COLD ON ATTENTION. WORKLOAD ANNUAL PROGRESS REPORT, N84-17858, 1-46.

622- KUJAR, WILLIAM T.; GAVEL, PAUL; MORELAND, JAMES A. (1976). IMPACT OF AUTOMATION UPON TRAFFIC CONTROL PRODUCTIVITY/CAPACITY (ARTS III). U.S. DEPT OF TRANSPORTATION FAA, FAA-RD-77-39, 1-16.

627- CONNOR, SIDNEY A.; WIERWILLE, WALTER W. (1983). COMPARATIVE EVALUATION OF TWENTY PILOT WORKLOAD ASSESSMENT MEASURES USING A PSYCHOMOTOR TASK IN A MOVING BASE AIRCRAFT SIMULATOR. NASA, N83-18702, 1-39.

632- BIFERNO, M. A. (1985). MENTAL WORKLOAD MEASUREMENT: EVENT RELATED POTENTIALS AND RATINGS OF WORKLOAD AND FATIGUE. NASA, N85-26139, 1-19.

635- BLIX, ARNOLDUS SCHYTTE; STROMME, SIGMUND B. & URSIN, HOLGER. (1974). ADDITIONAL HEART RATE- AN INDICATOR OF PSYCHOLOGICAL ACTIVATION. AEROSPACE MEDICINE, 1219-1222.

640- KELLEY, CHARLES; WARGO, MICHAEL J. (1967). CROSS-ADAPTIVE OPERATOR LOADING TASKS. HUMAN FACTORS, 9(5), 395-404.

642- CEDER, NAVISHAI. (1977). DRIVERS EYE MOVEMENTS AS RELATED TO ATTENTION IN SIMULATED TRAFFIC FLOW CONDITIONS. HUMAN FACTORS, 19(6), 571-581.

643- VAN DELLEN, H. J.; AASMAN, J.; MULDER, L. J. M.; MULDER, G. (1984). TIME DOMAIN VERSUS FREQUENCY DOMAIN MEASURES OF HEART RATE VARIABILITY. PSYCHOPHYSIOLOGY OF CARDIOVASCULAR CONTROL. METHOD, PLENUM PRESS, 1-29.

645- VELDMAN, J. B. P.; MULDER, L. J. M.; MULDER, G.; VAN DER HEIDE, D. SHORT-TERM COHERENCE BETWEEN BLOOD PRESSURE AND HEART - RATE DURING MENTAL LOADING: AN EXPLORATION IN THE TIME - AND FREQUENCY. 391-405.

648- MULDER, L. J. M.; MULDER, G. CARDIOVASCULAR REACTIVITY AND MENTAL WORKLOAD, 1-34.

649- MULDER, G; MULDER, L. J. M. (1981). INFORMATION PROCESSING AND CARDIOVASCULAR CONTRIL. PSYCHOPHYSIOLOGY, 18(4), 392-401.

651- OKITA, T.; WIJERS, A. A.; MULDER, G.; MULDER, L. J. M. (1985). MEMORY SEARCH AND VISUAL SPATIAL ATTENTION: AN EVENT - RELATED BRAIN POTENTIAL ANALYSIS. ACTA PSYCHOLOGICA, 60, 263-292.

652- LOGAN, GORDON D.; (1979). ON THE USE OF A CONCURRENT MEMORY LOAD TO MEASURE ATTENTION AND AUTOMATICITY. JOURNAL OF EXPERIMENTAL PSYCHOLOGY: HUMAN PERCEPTI, 5(2), 189-242.

653- HYNDMAN, B. W.; GREGORY, J. R. (1975). SPECTRAL ANALYSIS OF SINUS ARRHYTHMIA DURING MENTAL LOADING. ERGONOMICS OF THE HOME, 18(3), 255-270.

655- MULDER, G.; MULDER, L. J. M. (1980). TASK - RELATED CARDIOVASCULAR STRESS. ATTENTION AND PERFORMANCE IX, LAWRENCE ERLBAU, 591-606.

659- BERGERON, HUGH P.; (1968). PILOT RESPONSE IN COMBINED CONTROL TASKS. HUMAN FACTORS, 10(3), 277-282.

660- TOLE, J. R.; STEPHENS, A. T.; VIVAUDOO, M.; HARRIS, R. L.; EPHRATH, A. (1983). ENTROPY, INSTRUMENT SCAN, AND PILOT WORKLOAD. IEEE CONFERENCE ON SYSTEMS, MAN AND CYBERNETICS, 1-7.

666- VIDULICH, M.A.; WICKENS, C.D. (1986). CAUSES OF DISSOCIATION BETWEEN SUBJECTIVE WORKLOAD MEASURES AND PERFORMANCE. APPLIED ERGONOMICS, 17(4), 291-296.

667- BORTOLUSSI, M.R.; KANTOWITZ, B.H.; HART, S.G. (1986). MEASURING PILOT WORKLOAD IN A MOTION BASE TRAINER - A COMPARISON OF FOUR TECHNIQUES. APPLIED ERGONOMICS, 17(4), 278-283.

669- WOLF, JAMES D.; (1978). CREW WORKLOAD ASSESSMENT - DEVELOPMENT OF A MEASURE OF OPERATOR WORKLOAD. HONEYWELL SYSTEMS AND RESEARCH CENTER, AFFDL-TR-78-165, 1-81.

670- HARMS, D.; PACHALE, E.; HABERSETZER, R.; KOHLER, G. INFLUENCE OF THE WORKLOAD OF FLIGHT MISSIONS ON THE PERFORMANCE OF THE VISUAL SYSTEM OF AIRCREW. GERMAN AIRFORCE INSTITUTE OF AVIATION MEDICINE.

672- O'DONNELL, ROBERT D.; BOLLINGER, RALPH; HARTMAN, BRYCE O. (1974). THE EFFECTS OF EXTENDED MISSIONS ON THE PERFORMANCE OF AIRBORNE COMMAND AND CONTROL TEAMS - A FIELD SURVEY. AEROSPACE MEDICAL RESEARCH LAB, AMRI-TR-74-20, 1-31.

673- MCINTOSH, BILLY B.; MILTON, JOHN L.; COLE, EDWARD L. (1952). PILOT PERFORMANCE DURING EXTENDED PERIODS OF INSTRUMENT FLIGHT. AERO MEDICAL LABORATORY, AF TECH RP.6725, 1-41.

678- SCHLEGAL, ROBERT E.; GILLILAND, KIRBY; SCHLEGAL, BETINA. (1986). DEVELOPMENT OF THE CRITERION TASK SET PERFORMANCE DATA BASE. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 58-60.

679- EGGEMEIER, THOMAS F.; AMELL, JOHN R. (1986). VISUAL PROBABILITY MONITORING: EFFECTS OF DISPLAY LOAD AND SIGNAL DISCRIMINABILITY. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 63.

680- GILLILAND, KIRBY; SCHLEGEL, ROBERT; DANNELS, SHARON. (1986). INDIVIDUAL DIFFERENCES IN CRITERION TASK SET PERFORMANCE. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 64-68.

683- ACTON, WILLIAM; PEREZ, WILLIAM; REID, GARY. (1986). ON THE DIMENSIONALITY OF SUBJECTIVE WORKLOAD. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 30TH, VOLUME 1, 76-80.

694- LINDHOLM, ERNEST. (1981). PHYSIOLOGICAL AND DUAL TASK ASSESSMENT OF WORKLOAD DURING TRACKING AND SIMULATED FLIGHT. DTIC TECHNICAL REPORT, AFOS-TR-82-0714, 1-75.

723- DAMOS, DIANE. (1985). THE RELATIONSHIP BETWEEN TYPE A BEHAVIOR PATTERN, PACING AND SUBJECTIVE WORKLOAD UNDER SINGLE/DUAL TASK CONDITION HUMAN FACTORS, 27(6), 675-680.

725- HYYPPA, M.; AUNOLA, S.; LAHTELA, K.; LAHTI, R.; MARNIEMI, J. (1983). PSYCHONEUROENDOCRINE RESPONSES TO MENTAL LOAD IN AN ACHIEVEMENT TASK. ERGONOMICS, 26(12), 1155-1162.

726- WEBER, ANNETTA; FUSSLER, C.; O'HANLON, J.F.; GIERER, R.; GRANDJEAN, E. (1980). PSYCHOPHYSIOLOGICAL EFFECTS OF REPETITIVE TASKS. ERGONOMICS, 23(11), 1033-1046.

728- BOND, N. A. (1983). HEART RATE AND MENTAL WORKLOAD. OFFICE OF NAVAL RESEARCH LONDON, ESN36-11, 277-282.

730- VIDULICH, M.A.; TSANG, P.S. (1986). TECHNIQUES OF SUBJECTIVE WORKLOAD ASSESSMENT: A COMPARISON OF SWAT AND THE NASA-BIPOLAR METHODS. ERGONOMICS, 29 NO.11, 1385-1398.

731- WIERNER, EARL; CURRY; FAUSTINA. (1984). VIGILANCE AND TASK LOAD: IN SEARCH OF THE INVERTED U. HUMAN FACTORS, 26 NO.2, 215-222.

734- ELLS, JERRY G.; GOTTS, GORDON H. (1977). SERIAL REACTION TIME AS A FUNCTION OF THE NATURE OF REPEATED EVENTS. JOURNAL OF EXPERIMENTAL PSYCHOLOGY, VOL. 3 (2), 234-242.

735- NICHOLSON, A. N.; HILL, L. E.; BORLAND, R. G.; FERRERES, HELEN M. (1970). ACTIVITY OF THE NERVOUS SYSTEM DURING THE LET-DOWN, APPROACH AND LANDING: A STUDY OF SHORT DURATION HIGH WORKLOAD. CLINICAL AVIATION AND AEROSPACE MEDICINE, APRIL, 436-446.

736- BLAKE, BRUNO; MELTON, CARLTON E.; BLAKE, CLIFFORD. (1966). PHYSIOLOGICAL STRESS AND FATIGUE IN AERIAL MISSIONS FOR THE CONTROL OF FORREST FIRES. AEROSPACE MEDICINE, VOL. 37 (3), 221-227.

737- SMITH, H. P. RUFFELL. (1967). HEART RATE OF PILOTS FLYING AIRCRAFT ON SCHEDULED AIRLINE ROUTS. AEROSPACE MEDICINE, NOVEMBER, 1117-1119.



738- ROMAN, JAMES; OLDER, HARRY; JONES, WALTON L. (1967). FLIGHT RESEARCH PROGRAM: VII. MEDICAL MONITORING OF NAVY CARRIER PILOTS IN COMBAT. AEROSPACE MEDICINE, FEBRUARY, 133-139.

739- ROMAN, JAMES; PERRY, JOHN J.; CARPENTER, LEWIS R.; AWNI. SHAIBAN A. (1967). FLIGHT RESEARCH PROGRAM: VI. HEART RATE AND LANDING ERROR IN RESTRICTED FIELD OF VIEW LANDINGS. AEROSPACE MEDICINE, FEBRUARY, 128-132.

742- ROMAN, JAMES A. (1963). CARDIORESPIRATORY FUNCTIONING IN-FLIGHT. AEROSPACE MEDICINE, APRIL, 322-337.

743- BROWN, WILLIAM K.; GORRE, JAMES D.; MEYER, JERRY F.; BUCKLEY, CLIFFORD J.; BROWN, CLAY A. (1969). AEROMEDICAL ASPECTS OF THE FIRST NONSTOP TRANSATLANTIC HELICOPTER FLIGHT: II. HEART RATE AND ECG CHANGES. AEROSPACE MEDICINE, JULY, 714-717.

746- HURLEY. BEN F.; ET.AL. (1980). CARDIOVASCULAR AND SYMPATHETIC REACTIONS TO IN-FLIGHT EMERGENCY RESPONSES AMONG BASE FIRE FIGHTERS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 51 (8), 788-792.

747- BURTON, RUSSELL R.; SHAFFSTALL, ROBERT M. (1980). HUMAN TOLERANCE TO AERIAL COMBAT MANEUVERS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL 51 (7), 641-648.

750- NICHOLSON, A. N.; HILL, L. E.; BORLAND, R. G.; KRZANOWSKI, W. J. (1973). INFLUENCE OF WORKLOAD ON THE NEUROLOGICAL STATE OF A PILOT DURING THE APPROACH AND LANDING. AEROSPACE MEDICINE, VOL. 44 (2), 146-152.

757- HASBROOK, A. HOWARD; RASMUSSEN, PAUL G. (1970). PILOT HEART RATE DURING IN-FLIGHT SIMULATED INSTRUMENT APPROACHES IN A GENERAL AVIATION AIRCRAFT. AEROSPACE MEDICINE, VOL. 41 (10), 1148-1152.

758- BATEMAN S. C.; GOLDSMITH, R.; JACKSON, K. F.; SMITH, H. P. RUFFELL; MATTOCKS, VALERIE SUTTON. (1970). HEART RATE OF TRAINING CAPTAINS ENGAGED IN DIFFERENT ACTIVITIES. AEROSPACE MEDICINE, VOL. 41 (4), 425-429.

759- SEKIGUCHI, CHIHARU; HANDA, YASUNOBU; GOTOH, MASARU; KURIHARA, YOSHIHORI; NAGASAWA, YUKOH; KURODA, ISAO. (1979). FREQUENCY ANALYSIS OF HEART RATE VARIABILITY UNDER FLIGHT CONDITIONS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 50 (6), 625-634.

760- SEKIGUCHI, CHIHARU; HANDA, YASUNOBU; GOTOH, MASARU; KURIHARA, YOSHINORI; NAGASAWA, ARITSUNE; KURODA, ISAO. (1978). EVALUATION METHOD OF MENTAL WORKLOAD UNDER FLIGHT CONDITIONS. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 49 (7), 920-925.

761- ROSCOE, ALAN H. (1976). USE OF PILOT HEART RATE MEASUREMENT IN FLIGHT EVALUATION. AVIATION, SPACE, AND ENVIRONMENTAL MEDICINE, VOL. 47 (1), 86-90.

762- SPEYER, J. J.; FORT, A. (1982). HUMAN FACTORS APPROACH IN CERTIFICATION FLIGHT TEST. SAE TECHNICAL PAPER SERIES, 821340, 1-30.

764- EGGEMEIER, F. THOMAS; STADLER, MICHAEL A. (1984). SUBJECTIVE WORKLOAD ASSESSMENT IN A SPATIAL MEMORY TASK. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 28TH ANN. MEET.

766- EGGLESON, ROBERT G. (1984). A COMPARISON OF PROJECTED AND MEASURED WORKLOAD RATINGS USING THE SUBJECTIVE WORKLOAD ASSESSMENT TECHNIQUE (SWAT). PROCEED. OF THE NAT. AEROSPACE & ELECTRONICS CONF., MAY 21-25, 817-831.

769- POTTER, SCOTT S.; ACTON, WILLIAM H. (1985). RELATIVE CONTRIBUTIONS OF SWAT DIMENSIONS TO OVERALL SUBJECTIVE WORKLOAD RATINGS. PROCEED. OF THE 3RD SYMP. ON AVIATION PSYCHOLOGY, APRIL.

771- WARR, DARTANIAN; COLLE, HERBERT A.; REID, GARY B. (1986). A COMPARATIVE EVALUATION OF TWO SUBJECTIVE WORKLOAD MEASURES: SWAT AND THE MODIFIED COOPER HARPER SCALE. PSYCHOLOGY DEPARTMENT OF DEFENSE SYMPOSIUM.

773- HASKELL, B. E.; REID, GARY B. (1986). THE SUBJECTIVE PERCEPTION OF WORKLOAD IN LOW TIME PRIVATE PILOTS. TO APPEAR IN JOUR. OF AVIAT., SPACE, & ENV. MED., 1-12.

776- VINCENTE, KIM J.; THORNTON, D, CRAIG; MORAY, NEVILLE. (1986). SPECTRAL ANALYSIS OF SINUSARRHYTHMIA: A MEASURE OF MENTAL EFFORT. REVISED MANUSCRIPT, 1-31.

777- BAUER, LANCE O.; GOLDSTIEN, ROBERT; STERN, JOHN. (1986). EFFECTS OF INFORMATION PROCESSING DEMANDS ON PSYCHOLOGICAL RESPONSE PATTERNS. CENTER FOR ALCOHOL AND DRUG RELATED STUDIES, 1-35.

778- WAINWRIGHT, W. A. (1986). FLIGHT TEST EVALUATION OF CREW WORKLOAD FOR AIRCRAFT CERTIFICATION. CEC WORKSHOP IN TRANSPORT OPERATIONS, NOVEMBER 21-24, 1-9.

780- BRAUNE, ROLF; WICKENS, CHRISTOPHER D. (1984). INDIVIDUAL DIFFERENCES AND AGE-RELATED PERFORMANCE ASSESSMENT IN AVIATORS PART 2: INITIAL BATTERY VALIDATION. ENG.-PSY. RESEARCH LAB. FINAL TECH. REPORT, EPL83-7/NAMRL83, 1-77.

782- LINDHOLM, ERNEST; MILLER, MILTON J.; TOLDY, MARGARET. (1985). PHYSIOLOGICAL ASSESSMENT ON PILOT WORKLOAD IN THE A-7 AIRCRAFT. FINAL REPORT, F33615-81-C-000, 1-50.

785- HANSEN, C. M. (1970). PRELIMINARY STUDY OF FEASIBILITY OF MEASUREMENT OF MENTAL WORKLOAD BY HEART RATE BEAT-TO-BEAT INTERVAL VARIATIONS. SR-11.

787- HARRIS, RANDALL L.; TOLE, JOHN R.; EPHRATH, ARYE R.; STEPHENS, A. THOMAS. (1982). HOW A NEW INSTRUMENT AFFECTS PILOTS' MENTAL WORKLOAD. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 26TH, 1010-1013.

788- LENNOX, D.; (1963). AIRLINE PILOTS' EYE MOVEMENTS DURING TAKE-OFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS. AUSTRALIAN DEFENCE SCI. SERV. AERONAUT. RES. LABS, HUM. ENG. NO.15,

789- EDWARDS, RICHARD E.; TOLIN, PHILIP; JONSEN, GORDON L. (1982). PILOT VISUAL BEHAVIOR AS A FUNCTION OF NAVIGATION AND FLIGHT CONTROL MODES IN THE BOEING 757/767. PROCEEDINGS OF THE HUMAN FACTORS SOCIETY, 26TH, 441-445.

793- KREBS, MARJORIE J.; WINGERT, JAMES W.; CUNNINGHAM, THOMAS. (1977). EXPLORATION OF AN OCULOMETER-BASED MODEL OF PILOT WORKLOAD. NASA REPORT, 76SRC39, 1-91.

794- BURNS, THOMAS VICTOR; (1972). PUPIL DIAMETER VARIATION IN A VISUAL INTERPRETATION TASK. NAVAL POSTGRADUATE SCHOOL, THESIS, 1-35.

795- KRAMER, ARTHUR F.; SIREVAAG, ERIK J.; BRAUNE, ROLF. A PSYCHOPHYSIOLOGICAL ASSESSMENT OF OPERATOR WORKLOAD DURING SIMULATED FLIGHT MISSIONS. HUMAN FACTORS (IN PRESS), 1-33.

796- WICKENS, CHRISTOPHER D.; HAYMAN, FRED; DELLINGER, JOHN; TAYLOR, HENRY; MEADOR, MARTY. (1986). THE STERNBERG MEMORY SEARCH TASK AS AN INDEX OF PILOT WORKLOAD. ERGONOMICS, VOL. 29 (11), 1371-1383.

797- AASMAN, JANS; MULDER, GIJSBERTUS; MULDER, LAMBERTUS J. M. OPERATOR EFFORT AND THE MEASUREMENT OF HEART RATE VARIABILITY. 1-29.

799- GOMER, FRANK E.; SILVERSTEIN, LOUIS D.; BERG, W. KEITH; LASSITER, DONALD L. (1986). CHANGES IN ELECTROMYOGRAPHIC ACTIVITY ASSOCIATED WITH OCCUPATIONAL STRESS AND POOR PERFORMANCE IN THE WORKPLACE. BEHAVIORAL SCIENCES APPLICATIONS, GEN. PHYS. CORP, 1-42.

USAF/FAA REVIEW OF WORKLOAD MEASUREMENT METHODS:  
VALIDITY, RELIABILITY, AND APPLICABILITY

February 24 and 25, 1987

FACT MATRIX

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
NASA Bipolar Scale	17	17	17			95		
	28	28	667					
	95	268						
	268	412						
	346	530						
	530	577						
	632	666						
	666	667						
	667	730						
	723							
SWAT	28	28	94	678(3)		340		
	34	34	112			766		
	41	41	235					
	42	42	340					
	112	94	559					
	235	112	766					
	339	235	773					
	340	338						
	372	339						
	465	340						
	483(2)	372						
	559	465						
	678(1,2)	483(2)						
	764	578(1,2,3)						
	769	766						
	773	769						
		771						
		773						
WCI/TE	13	13	16	64	64	64	64	
	16	16	66					
	64	64	538					
	66	66						
	243	243						
	269	269						
	367	367						
	538	627						
	627							

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Modified Cooper Harper	13	13	15	225		173(1,2)	183	
	15	15	16	583		183	225	
	16	16	65			283	762	
	65	65	66			344		
	66	66	173(1,2)			459		
	130(1)	130(1,2)	175			496		
	144	144	183			583		
	159	161	225			762		
	161	173(1,2)	245			793		
	173(1,2)	175	255					
	175	183	283					
	183	187	307					
	225	225	370					
	243	243	436					
	269	269	459					
	307	283	492					
	344	307	496					
	367	367	538					
	436	436	583					
	459	459	761					
	492	492	762					
	496	496	778					
	509	509						
	538	583						
	540	627						
	583	735						
	627	761						
	669	762						
	735	771						
	762	778						
	778	793						
	793							
	799							
Inter-views	180	225	225	225		180	180	
	215	283	283			283	225	
	225	291	340			340	672	
	291	340	672			672	762	
	340	508	673			742		
	508	509	742			762		
	509	627	762					
	627	672	778					
	672	742						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Interviews (cont'd)	673 742 762 778	746 762 778						
Surveys	97 103 173(1,2) 180 183 215 317 339 428 509 597 672	97 173(1,2) 183 283 317 339 428 509 597 672	173(1,2) 183 283 597 672			173(1,2) 180 183 283 672	180 183 672	
Other Subjective Measures	3 5(1,2,3) 8 15 16 29 33 40 67 93 100(1) 109(1,2) 112 131 135 136 151 158 159 161 172 173(1,2) 175 183 185	3 5(1,2,3) 8 15 16 29 33 40 67 93 102 109(1,2) 112 115 135 136 141 151 156 158 161 172 173(1,2) 175 183	15 16 67 101 102 112 156 173(1,2) 175 183 212(1) 225 247 258(2) 294 314(1,2) 340 449 459 501 502 538 583 598 672	5(1,2,3) 136 225 583 725 726 683	102 131	8 100(1,2) 173(1,2) 183 185 212(1) 217 320 331(1,2) 340 357 409 411 459 583 672 742 762 787 795	67 136 183 225 672 762	

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA- BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Subjective Measures (cont'd)	191	187	673					
	212(1)	191	742					
	217	217	762					
	225	225						
	231	231						
	237	237						
	267	247						
	288	291						
	291	294						
	294	314(1,2)						
	314(1,2)	331(1,2)						
	320	340						
	331(1,2)	341						
	340	349						
	341	350						
	349	352						
	352	353						
	353	357						
	357	367						
	358	396						
	367	409						
	396	411						
	409	424						
	424	429						
	429	449						
	449	459						
	459	493(3)						
	493(3)	501						
	501	502						
	502	508						
	508	509						
	50.	574						
	511	583						
	538	610						
	540	618						
	570	627						
	583	672						
	584	683						
	593	742						
	598	762						
	610	769						
	616	787						
	618	795						



FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other	627							
Subjective	648(5.5)							
Measures	669							
(cont'd)	672							
	673							
	726							
	742							
	762							
	769							
	776							
	787							
	795							

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Body Fluid	408 615 616 726	408 521		725 726				
Brain Activity	3 32 33 71 72 73 86 86 120 121 134(1,2) 139(2,3) 237 266 427 557 560 618 632 651(2) 726 736 777 795	3 32 33 72 73 86 88 187 237 426 427 557 560 567 618 694 795	120 427 557	121 726		134(1,2) 427 651(1,2) 795		
Heart	3 13 15 16 29 66 67 117 130(1) 134(1,2) 135 151 161 175 184	3 13 15 16 29 66 67 115 130(1,2) 135 151 161 175 217	15 16 66 67 175 184 247 261 283 286 407(1,2,3) 459 538 742 758	726		134(1,2) 184 217 283 286 407(1,2) 459 653(2A, 2B, 2C) 655(2,3) 742 758 760	67	

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Heart (cont'd)	217	243	760					
	223	247	761					
	243	269	778					
	269	283						
	291	291						
	341	338						
	367	341						
	407(1,2,3)	350						
	408	367						
	424	407(1,2,3)						
	459	408						
	469	424						
	538	459						
	540	521						
	581	610						
	595	614						
	610	618						
	612	627						
	614	635						
	615	645						
	618	649(2)						
	627	655(2,3)						
	643	694						
	645	728						
	648(5,2,	735						
	5,3,	737						
	5,4,	739						
	5,5,	742						
	5,6,	746						
	5,7)	758						
	649(2)	759						
	653(2A,	760						
	2B,	761						
	2C)	778						
	655(2,3)	797						
	669							
	726							
	728							
	735							
	736							
	737							
	738							
	739							
	742							

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Heart (cont: 3)	743 747 750 757 758 759 760 776 777 778 782 785 797							
Lung	3 13 15 16 66 34 2 61 175 243 269 341 267 407 1,2 459 469 538 540 580 584 595 618 627 648(5.4) 655(1) 669 736 742 750 759 782	3 13 15 16 66 15 61 175 187 243 247 269 341 367 407 1,2 459 469 538 540 618 627 655(1) 742 746 759	15 16 66 175 247 407 1,2 459 538 742			134 2 407 1,2 459 555 742		

FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Muscle	136	136	175	136		459	136	
	175	175	261	726				
	459	187	459					
	530	530						
	533(1,2,3)	590						
	590	618						
	595	735						
	618							
	669							
	726							
	735							
	736							
	750							
Skin	3	3	247			134(1)		
	117	187	286			286		
	134(1)	247	407(1)			407(1)		
	407(1)	407(1)						
	618	618						
Vision		621						
	13	13	15			134(1)		
	15	15	16			209		
	16	16	58			459		
	23	23	66			787		
	50	50	175			793		
	66	66	209					
	72	72	459					
	73	73	598					
	77	77						
	118	88						
	134(1)	151						
	151	161						
	161	175						
	175	187						
	209	209						
	210	210						
	231	231						
	243	243						
	269	269						
	367	367						
	455	391						
	459	452						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Vision (cont'd)	530	455						
	533(1,2,3)	459						
	540	530						
	598	627						
	627	642						
	642	613						
	612	787						
	660	793						
	669							
	777							
	787							
	788							
	789							
	793							
	794							
Voice	13	13	66					
	66	66						
	243	243						
	269	269						
	469	627						
	627							
Other Psy- chological	121	161	271	121	31	651(1,2)		
	131	271		726		655(1,2,3)		
	139(2,3)	577						
	159	590						
	161	614						
	271	635						
	511	655(1,2,3)						
	575							
	590							
	614							
	648(5,5)							
	651(2)							
	655(1,2,3)							
	617							
	726							
	736							

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Time	8	8	15	121	102	8	180	
	13	13	16	225	131	30(1,2)	183	
	15	15	17	583		173(1,2)	225	
	16	16	65	600		180	274	
	17	17	66	678(3)		183	762	
	23	23	101	683		184	780	
	30(1,2)	30(1,2)	102			185		
	33	33	112			209		
	34	34	120			212(2)		
	40	40	156			286		
	53(1)	53(1)	173(1,2)			331(1,2)		
	60	60	174			411		
	65	65	175			459		
	66	66	183			472(1)		
	71	69	184			496		
	72	72	209			583		
	112	88	212(2)			551(1,2)		
	120	102	225			553(2A,2B, 2C)		
	121	112	233			555(1,2,3)		
	130(1)	130(1)	234			734		
	131	135	235			762		
	135	150	245			780		
	139(2,3)	151	247			793		
	150	156	255			795		
	151	158	257					
	158	161	261					
	159	172	271					
	161	173(1,2)	274					
	172	174	286					
	173(1,2)	175	294					
	175	183	307					
	180	209	370					
	183	210	436					
	184	225	459					
	185	233	492					
	209	234	496					
	210	235	501					
	212(2)	237	502					
	223	243	538					
	225	247	557					
	233	269	583					
	235	271	598					
	237	291	600					

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Time (cont'd)	243	294	667					
	257	307	673					
	266	331(1,2)	762					
	267	341	778					
	269	347						
	271	353						
	291	372						
	294	396						
	307	408						
	331(1,2)	411						
	341	412						
	346	434						
	347	436						
	353	458						
	372	459						
	396	472						
	408	486						
	436	490						
	456	491						
	458	492						
	459	493(1,2,3)						
	492	496						
	493(1,2,3)	501						
	496	502						
	501	516						
	502	524(1,2,3)						
	511	530						
	516	531						
	530	557						
	533(1,3)	560						
	538	576						
	540	577						
	557	583						
	560	590						
	575	600						
	576	618						
	580	619						
	583	622						
	584	645						
	590	649(2)						
	593	655(1,2,3)						
	595	666						
	598	667						
	600	678(1,2,3)						



## FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	612	730						
Primary Task	616	619						
Time	617	680						
Control	618	683						
	622	694						
	632	734						
	643	762						
	645	769						
	646	778						
	648	780						
	649	793						
	650	795						
	651	797						
	652	798						
	653	799						
	654	800						
	655	801						
	656	802						
	657	803						
	658	804						
	659	805						
	660	806						
	661	807						
	662	808						
	663	809						
	664	810						
	665	811						
	666	812						
	667	813						
	668	814						
	669	815						
	670	816						
	671	817						
	672	818						
	673	819						
	674	820						
	675	821						
	676	822						
	677	823						
	678	824						
	679	825						
	680	826						
	681	827						
	682	828						
	683	829						
	684	830						
	685	831						
	686	832						
	687	833						
	688	834						
	689	835						
	690	836						
	691	837						
	692	838						
	693	839						
	694	840						
	695	841						
	696	842						
	697	843						
	698	844						
	699	845						
	700	846						
	701	847						
	702	848						
	703	849						
	704	850						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	34	34	120			185		
Primary	60	60	148			209		
Task	65	65	156			212(2)		
Position	66	66	173(1)			286		
Control	69	69	174			331(2)		
	96	102	175			344		
	109	109	183			409		
	112	112	184			427		
	115	115	209			459		
	120	130	212(2)			472(1)		
	121	135	225			331		
	122	144	233			496		
	123	150	234			583		
	124	151	235			551(1,2)		
	126	156	245			552(1,2,3)		
	129	158	247			553(2A, 2B, 2C)		
	144	173	255			555(1,2,3)		
	147	174	257			762		
	150	175	258(2)			780		
	156	183	261			793		
	159	187	271			795		
	160	209	274					
	165	210	286					
	190	225	294					
	183	237	307					
	184	233	314(1,2)					
	185	234	370					
	196	235	427					
	209	237	436					
	210	243	459					
	212(2)	247	492					
	225	268	496					
	237	269	501					
	233	271	502					
	235	294	538					
	237	306	557					
	243	307	559					
	257	314(1,2)	583					
	266	331	598					
	267	341	600					
	268	353	667					
	269	367	673					
	271	391	762					

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PROCEEDINGS OF THE WORKSHOP ON THE ASSESSMENT OF CREW  
WORKLOAD MEASUREMENT. (U) DOUGLAS AIRCRAFT CO LONG BEACH  
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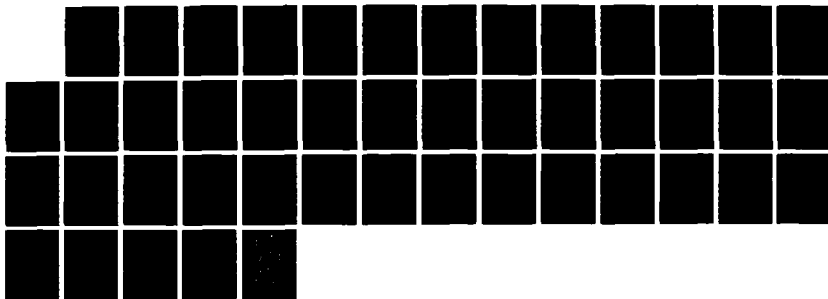
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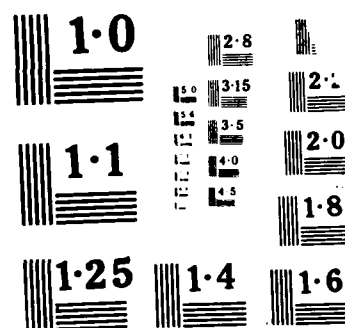
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FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA- BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform- ance	294	396	778					
	307	408						
Primary	314(1,2)	409						
Task:	331(2)	427						
Position	341	428						
(cont'd)	344	429						
	353	436						
	367	455						
	396	458						
	408	459						
	409	467(2)						
	427	472(1)						
	428	483(2)						
	429	486						
	436	491						
	455	492						
	458	493(1,2,3)						
	459	496						
	492	501						
	493(1,2,3)	502						
	496	516						
	501	518(2)						
	502	521						
	511	524(1,2,3)						
	516	530						
	518(2)	531						
	530	532						
	532	557						
	533(1,2,3)	559						
	538	560						
	540	576						
	557	577						
	559	583						
	560	590						
	575	600						
	576	605						
	580	606						
	583	608(2)						
	584	618						
	590	621						
	593	622						
	595	635						
	598	642						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA- BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	600	645						
Primary	605	652(1,2,3)						
Task:	608(2)	655(1,2,3)						
Position	615	667						
(cont'd)	618	694						
	622	730						
	632	731						
	640	739						
	642	762						
	643	778						
	645	780						
	648(5.2,	793						
	5.3,	795						
	5.4,	797						
	5.7)							
	649(2)							
	651(2)							
	652(1,2,3)							
	653(2A,2B,							
	2C)							
	655(1,2,3)							
	659							
	612							
	617							
	660							
	483							
	667							
	669							
	673							
	739							
	762							
	776							
	778							
	780							
	782							
	793							
	794							
	795							
	797							
	799							

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICA- BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Perform- Primary Task: Event	3	3	15	5(2,3)	102	8	180	
	5(2,3)	5(2,3)	16	121	131	30(1)	183	
	8	8	94	255		101(1,2)	225	
	13	13	101	583		134(1,2)	274	
	15	15	192	600		173(2)	762	
	16	16	112	678(3)		180	780	
	23	23	156	683		183		
	30(1)	30(1)	173	725		184		
	32	32	175			185		
	33	33	183			209		
	34	34	184			212(2)		
	40	40	209			286		
	53(1)	53(1)	212(2)			331(1,2)		
	60	60	225			344		
	71	69	233			409		
	100(1)	88	235			427		
	112	94	257			472(2)		
	117	102	271			496		
	121	112	274			583		
	130(1)	130(1,2)	286			651(1,2)		
	131	150	294			652(1,2,3)		
	134(1,2)	156	307			655(1,2,3)		
	139(2,3)	158	314(1,2)			734		
	150	173(2)	427			762		
	158	175	436			780		
	159	183	492			793		
	173(2)	191	496			795		
	175	209	501					
	180	210	538					
	183	225	557					
	184	231	583					
	185	233	598					
	191	235	600					
	209	237	673					
	210	243	762					
	212(2)	268	778					
	223	269						
	225	271						
	231	291						
	233	294						
	235	306						
	237	307						
	243	314(1,2)						
	257	331(1,2)						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Event (cont'd)	268	347						
	269	353						
	271	372						
	291	408						
	294	409						
	307	427						
	314(1,2)	428						
	331	434						
	344	436						
	346	455						
	347	458						
	353	467						
	372	483(2)						
	408	491						
	409	492						
	427	493(1,2,3)						
	428	496						
	436	501						
	455	503						
	456	516						
	458	518(2)						
	483(2)	521						
	492	524(1,2,3)						
	493(1,2,3)	530						
	496	531						
	501	532						
	511	557						
	516	560						
	518(2)	574						
	530	577						
	532	583						
	533(3)	590						
	538	600						
	540	605						
	557	606						
	560	608(2)						
	575	610						
	581	619						
	583	621						
	584	622						
	590	635						
	593	645						
	595	652(1,2,3)						



FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	598	655(1,2,3)						
	600	666						
Primary	601	678(1,2,3)						
Task:	605	731						
Event	608(2)	679						
(cont'd)	610	680						
	612	683						
	615	694						
	617	734						
	622	739						
	640	762						
	643	769						
	645	778						
	648(5.2,	780						
	5.3,	793						
	5.4,	795						
	5.6	797						
	5.7)							
	649(2)							
	651(2)							
	652(1,2,3)							
	653(2A,2B,							
	2C)							
	655(1,2,3)							
	659							
	666							
	673							
	678							
	723							
	678							
	739							
	762							
	764							
	769							
	776							
	778							
	780							
	782							
	793							
	794							
	795							
	797							
	799							

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	8	8	66	225		8	183	
Normal	30(1,2)	30(1,2)	156	583		30(1,2)	225	
Secondary	60	60	173(1,2)	600		173(1,2)	762	
Task:	66	66	174			183	780	
Time	71	69	175			184		
	73	73	183			209		
	109(2)	109(2)	184			212(2)		
	139(2,3)	156	209			344		
	158	158	212(2)			411		
	173(1,2)	173(1,2)	225			459		
	175	174	234			583		
	183	175	271			653(2A, 2B, 2C)		
	184	183	294					
	196	209	307			734		
	209	210	436			762		
	210	225	449			780		
	212(2)	234	459			793		
	225	237	501			795		
	237	243	502					
	243	268	583					
	268	269	600					
	269	271	667					
	271	291	673					
	288	294	762					
	291	307	778					
	294	408						
	307	411						
	344	436						
	408	449						
	436	458						
	449	459						
	458	501						
	459	502						
	501	524(1,2,3)						
	502	576						
	540	583						
	576	600						
	583	618						
	595	666						
	600	667						
	618	731						
	648(5,2)	734						
	653(2A, 2B, 2C)	762						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	666	778						
Normal	667	780						
Secondary Task:	673	793						
Time	723	795						
(cont'd)	762							
	777							
	778							
	780							
	782							
	793							
	795							
Performance	8	8	156	225		8	183	
Normal	60	60	175	583		134(2)	225	
Secondary Task:	71	69	183	600		183	274	
Position	134(2)	135	184			184	762	
	135	156	209			209	780	
	139(2,3)	158	212(2)			212(2)		
	158	175	225			344		
	175	183	271			411		
	183	209	274			496		
	184	210	294			583		
	209	225	307			553(2A, 2B, 2C)		
	210	237	436					
	212(2)	243	470			762		
	225	268	496			780		
	237	269	501			793		
	243	271	583			795		
	268	294	600					
	269	307	673					
	271	408	762					
	294	411	778					
	307	436						
	344	458						
	408	496						
	436	501						
	458	524(1, 2, 3)						
	470	576						
	496	583						
	501	600						
	540	619						
	576	620						
	583	666						
	595	731						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	600	730						
Normal	648(5,2)	762						
Secondary	653(2A,2B,2C)	778						
Task:	666	780						
Position	673	793						
(cont'd)	762	795						
	777							
	778							
	780							
	782							
	793							
	795							
Performance	8	8	66	225		8	183	
Normal	23	23	156	583		30(1,2)	225	
Secondary	30(1,2)	30(1,2)	173(1)	600		134(1,2)	274	
Task:	60	60	174			173(1)	762	
Event	66	66	175			183	780	
	71	69	183			184		
	134(1,2)	115	184			209		
	135	135	209			212(2)		
	139(2,3)	156	212(2)			344		
	158	158	225			411		
	161	161	234			459		
	173(1)	173(1)	271			496		
	175	174	274			583		
	183	175	294			653(2A,2C)		
	184	183	307			734		
	209	209	436			762		
	210	210	449			780		
	212(2)	225	459			793		
	225	234	470			795		
	237	237	496					
	243	243	501					
	268	268	502					
	269	269	583					
	271	271	600					
	288	291	673					
	291	294	762					
	294	307	778					
	307	408						
	344	411						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	408	436						
Secondary	436	449						
Task:	449	458						
Event	458	459						
(cont'd)	459	483(2)						
	470	496						
	483(2)	501						
	496	502						
	501	524(1,2,3)						
	502	583						
	540	600						
	583	618						
	593	619						
	595	620						
	600	730						
	618	694						
	648(5,2)	734						
	653(2A,2C)	762						
	673	778						
	723	780						
	762	793						
	777	795						
	778							
	780							
	782							
	793							
	795							
Performance	13	13	15	121	102	100(1)	136	
Artificial	15	15	16	136		357	274	
Secondary	16	16	17			407(1,2)	780	
Task:	17	17	101			780		
Time	41	41	102			793		
	77	77	234			796		
	100(1)	102	255					
	118	135	258(2)					
	121	136	274					
	135	141	307					
	136	150	314(1,2)					
	139(3)	151	370					
	150	187	407(1,2,3)					
	151	234	492					
	243	243	502					

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	268	268	538					
Artificial	269	269	667					
Secondary	307	306	673					
Task:	314(1,2)	307						
Time	347	314(1,2)						
(cont'd)	357	338						
	367	347						
	407(1,2,3)	350						
	424	357						
	492	367						
	502	407						
	518(2)	424						
	536	452						
	538	467(1,2)						
	540	492						
	575	502						
	590	518(2)						
	640	536						
	659	577						
	667	590						
	669	667						
	673	731						
	780	780						
	793	793						
	796	796						
Performance	121	102	102	121	102	472(2)	136	
Artificial	136	136	271	136		780	780	
Secondary	139(3)	141	492					
Task:	151	151	538					
Position	243	243	673					
	269	269						
	271	271						
	347	306						
	424	347						
	492	350						
	536	424						
	538	452						
	540	472(2)						
	575	492						
	640	536						
	659	577						
	673	731						
	780	780						

FAB-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	3	3	15	136	102	100(1)	136	
Artificial	15	15	16	583		357	780	
Secondary	16	16	17			407(1,2)		
Task:	17	17	102			427		
Event	41	41	234			472(1)		
	77	77	255			583		
	86	86	258(2)			780		
	100(1)	102	271			793		
	118	115	307			796		
	135	135	314(1,2)					
	136	136	370					
	139(2,3)	141	407(1,2,3)					
	144	144	427					
	150	150	492					
	236	187	501					
	243	234	502					
	266	243	538					
	268	268	583					
	269	269	667					
	271	271	673					
	307	306						
	314(1,2)	307						
	357	314(1,2)						
	407(1,2,3)	357						
	427	391						
	492	407(1,2,3)						
	501	427						
	502	452						
	518(2)	472						
	532	486						
	536	490						
	538	492						
	540	501						
	575	502						
	583	503						
	590	518(2)						
	605	531						
	608(2)	532						
	640	536						
	659	577						
	612	583						
	648(5,4)	590						
	660	605						
	667	606						

**FAR-25 WORKLOAD FACTOR 4a: DEGREE OF MENTAL**

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	669	608(2)						
Artificial	673	667						
Secondary	780	780						
Task:	793	793						
Event	796	796						
(cont'd)								



FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
NASA Bipolar Scale	17 95 268 632	17 268	17			95		
SWAT	42 465	42 465						
ACI TE	64 66 269 367	64 66 269 367	66	64	64	64	64	
Modified Cooper Harper	65 66 159 183 225 269 367 496 509 583 569 762 778 799	65 66 183 225 269 367 496 509 583 778	65 66 183 225 255 370 496 583 762 778	225 583		183 344 496 583 762	183 225 762	
Interviews	180 215 225 291 509 672 673 742 762 778	225 291 509 672 742 746 762 778	225 672 673 742 762 778	225		180 672 742 762	180 225 672 762	
Surveys	180 183 215 509	183 509 597 672	183 597 672			180 183 672	180 183 672	

PAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Surveys (cont'd)	597 672							
Other Subjective Measures	3 40 67 93 131 158 159 183 185 217 225 237 291 294 367 396 449 502 509 583 593 616 669 672 673 742 762	3 40 67 93 102 158 183 217 225 237 247 291 294 367 396 449 502 509 574 583 672 742 762	67 102 183 225 247 294 449 502 583 672 673 742 762	225 583	102 131	183 185 217 583 672 742 762	67 183 225 672 762	

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Body Fluid	408 615 616	408						
Brain Activity	3 121 237 139(2,3) 632 736	3 237		121				
Heart	3 66 67 184 217 223 269 291 367 408 469 614 615 669 736 742 743 747 758 760 778	3 66 67 217 247 269 291 367 408 614 742 746 758 760 778	66 67 184 247 261 742 758 760 778			184 217 742 758 760	67	
Lung	3 66 269 367 469 669 736 742	3 66 247 269 367 742 746	66 247 742			742		
Muscle	469 669 736		261					

FAE-23 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Skin	3	3 247	247					
Vision	60 66 77 209 210 269 367 669 670	60 66 77 209 210 269 367 452	66 209			209		
Voice	66 269 469	66 269	66					
Other Physiological Measures	121 131 159 139(2,3) 614 736	614		121	131			

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Time	17	17	17	121	102	30	180	
	30(1,2)	30(1,2)	65	225	131	180	183	
	40	40	66	583		183	225	
	60	60	102	600		184	762	
	65	65	174			185		
	66	66	183			209		
	121	69	184			496		
	131	102	209			583		
	139(2,3)	150	225			762		
	150	158	247					
	158	174	255					
	159	183	257					
	180	209	261					
	183	210	294					
	184	225	370					
	185	237	496					
	209	247	502					
	210	269	583					
	223	291	600					
	225	294	673					
	237	396	762					
	257	408	778					
	269	434						
	291	458						
	294	496						
	396	502						
	408	529						
	458	583						
	496	600						
	502	622						
	528	762						
	529	778						
	583							
	593							
	600							
	615							
	622							
	632							
	673							
	762							
	778							
	799							

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	17	17	17	121	102	30(2)	180	
Primary	30(1,2)	30(1,2)	65	225	131	95	183	
Task:	60	60	66	583		180	225	
Position	65	65	102	600		183	762	
	66	66	174			184		
	95	69	183			185		
	121	102	184			209		
	131	150	209			344		
	139(2,3)	158	225			496		
	150	174	247			583		
	158	183	255			762		
	159	209	257					
	180	210	261					
	183	225	294					
	184	237	370					
	185	247	496					
	209	268	502					
	210	269	583					
	225	294	600					
	237	367	673					
	257	396	762					
	268	408	778					
	269	458						
	294	496						
	344	502						
	367	583						
	396	600						
	408	622						
	458	731						
	496	762						
	502	778						
	583							
	593							
	600							
	615							
	622							
	632							
	669							
	673							
	762							
	778							
	799							

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Event	3	3	102	121	102	30(1)	180	
	30(1)	30(1)	183	225	131	180	183	
	40	40	184	583		183	225	
	60	60	209	600		184		
	121	69	225			185		
	131	102	257			209		
	139(2,3)	150	294			344		
	150	158	496			496		
	158	183	583			583		
	159	209	600			762		
	180	210	673					
	183	225	762					
	184	237	778					
	185	268						
	209	269						
	210	291						
	223	294						
	225	408						
	237	434						
	257	458						
	268	496						
	269	574						
	291	583						
	294	600						
	344	622						
	408	731						
	458	762						
	496	778						
	583							
	593							
	600							
	615							
	622							
	673							
	762							
	778							
	799							

PAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	30(1,2)	30(1,2)	66	225		30	183	
Normal	60	60	174	583		183	225	
Secondary Task:	66	66	183	600		184	762	
Time	139(2,3)	69	184			209		
	158	158	209			344		
	183	174	225			583		
	184	183	294			762		
	209	209	449					
	210	210	502					
	225	225	583					
	237	237	600					
	268	268	673					
	269	269	762					
	291	291	778					
	294	294						
	344	408						
	408	449						
	449	458						
	458	502						
	502	583						
	583	600						
	600	731						
	673	762						
	762	778						
	778							
Performance	60	60	183	225		183	183	
Normal	139(2,3)	69	184	583		184	225	
Secondary Task:	158	158	209	600		209	762	
Position	183	183	225			344		
	184	209	294			496		
	209	210	496					
	210	225	583					
	225	237	600					
	237	268	673					
	268	269	762					
	269	294	778					
	294	408						
	344	458						
	408	496						
	458	583						
	496	600						
	583	731						
	600	762						



VAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	673	778						
Normal	762							
Secondary Task:	778							
Position (cont'd)								
Performance	30(1,2)	30	66	225		30	183	
Normal	60	60	174	583		183	225	
Secondary Task:	66	66	183	600		184	762	
Event	139(2,3)	69	184			209		
	158	158	209			344		
	183	174	225			496		
	184	183	294			583		
	209	209	449			762		
	210	210	496					
	225	225	502					
	237	237	583					
	268	268	600					
	269	269	673					
	291	291	762					
	294	294	778					
	344	408						
	408	449						
	449	458						
	458	496						
	496	502						
	502	583						
	583	600						
	593	762						
	600	778						
	673							
	762							
	778							
Performance	17	17	17	121	102			
Artificial	77	77	102					
Secondary Task:	121	102	255					
Time	139(3)	150	370					
	150	268	502					
	268	269	673					
	269	367						
	367	452						

FAR-25 WORKLOAD FACTOR 4b: DURATION OF MENTAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	502	502						
Artificial	536	536						
Secondary	669	731						
Task:	673							
Time								
(cont'd)								
Performance	121	102	102	121	102			
Artificial	139(3)	269	673					
Secondary	269	452						
Task:	536	536						
Position	673	731						
Performance	3	3	17	583	102	583		
Artificial	17	17	102					
Secondary	77	77	255					
Task:	139(2,3)	102	370					
Event	150	150	502					
	268	268	583					
	269	269	673					
	502	452						
	536	502						
	583	536						
	669	583						
	673							

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
NASA Bipolar Scale	28 95 268 530	28 268 539				95		
SWAT	28 41 339 340 773	28 41 339 340 766 773	340 766 773			340 766		
WC1/TE	13 16 64 243 367 538	13 16 64 243 367	16 538	64	64	64	64	
Modified Cooper Harper	13 15 16 65 130(1) 159 175 183 225 243 344 367 436 459 492 496 509 538 540 583 669 735 762 778 793 799	13 15 16 65 130(1) 175 183 187 225 243 283 367 436 459 492 496 509 583 735 761 762 778 793	15 16 65 175 183 225 283 436 459 492 496 538 583 761 762 778	225 583		183 283 344 459 496 583 762 793	183 225 762	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Interviews	180	225	225	225		180	180	
	215	283	283			283	225	
	225	291	340			340	672	
	291	340	672			672	762	
	340	508	673			742		
	508	509	742			762		
	509	672	762					
	672	742	778					
	673	762						
	742	778						
	762							
	778							
Surveys	103	183	183			180	180	
	180	283	283			183	183	
	183	339	597			283	672	
	215	428	672			672		
	339	509						
	428	597						
	509	672						
	597							
	672							
Other Subjective Measures	5(1,2,3)	5(1,2,3)	15	5(1,2,3)	102	8	67	
	8	8	16			183	183	
	15	15	67			217	225	
	16	16	98			240	672	
	29	29	101			340	762	
	33	33	102			357		
	40	40	175			409		
	67	67	183			459		
	93	93	225			583		
	98	98	240			672		
	109(1,2)	102	314(1,2)			742		
	151	109(1,2)	340			762		
	158	115	459			795		
	159	151	538					
	172	158	583					
	175	172	672					
	183	175	673					
	217	183	742					
	225	187	762					
	231	217						
	237	225						

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Subjective Measures (cont'd)	240	231						
	291	237						
	314(1,2)	240						
	340	291						
	341	314(1,2)						
	349	340						
	352	341						
	353	349						
	357	352						
	358	353						
	367	357						
	409	367						
	429	409						
	459	429						
	508	459						
	509	508						
	538	509						
	540	583						
	570	610						
	583	672						
	584	742						
	610	762						
	616	795						
	669							
	672							
	673							
	742							
	762							
	795							

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Body Fluid	408 615 616	408 521						
Brain Activity	32 33 72 73 237 736 795	32 33 72 73 187 237 795				795		
Heart	13 15 16 29 67 117 130(1) 151 175 184 217 243 291 341 367 407(1) 408 459 469 538 540 586 595 610 614 615 643 648(5.4) 669 735 736 742 743	13 15 16 29 67 115 130(1) 151 175 187 217 243 283 291 341 367 407(1) 408 459 459 521 610 614 735 742 758 760 761 778	15 16 67 175 184 261 283 286 407(1) 459 742 758 760 761 778			184 217 283 286 407(1) 459 742 758 760	67	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Heart (cont'd)	747 758 760 778 785							
Lung	13 15 16 175 243 341 367 407(1) 459 469 538 540 566 582 584 586 595 648(5.4) 669 736 742	13 15 16 115 175 187 243 341 367 407(1) 459 521 566 742	15 16 175 407(1) 459 538 566 742			407(1) 459 742		
Muscle	175 459 469 530 590 595 669 735 736	175 187 459 530 590 735	175 261 459			459		
Skin	117 407(1)	187 407(1) 621	286 407(1)			286 407(1)		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Vision	13	13	15			209		
	15	15	16			459		
	16	16	175			793		
	23	23	198					
	72	72	209					
	73	73	459					
	151	151						
	175	175						
	209	187						
	210	209						
	231	210						
	243	231						
	367	243						
	459	367						
	530	452						
	540	459						
	669	530						
	788	613						
	793	793						
Voice	13	13						
	243	243						
	469							
Other Physiological Measures	159	240	240			240		
	240	590						
	590	614						
	614							
	736							



FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	8	8	15	225	102	8	180	
Primary	13	13	16	583		180	183	
Task:	15	15	65	600		183	225	
Time	16	16	101			184	762	
	23	23	102			209		
	33	33	175			212(2)		
	40	40	183			286		
	53(1)	53(1)	184			459		
	65	65	198			496		
	72	72	209			583		
	130(1)	102	212(2)			762		
	151	130(1)	225			793		
	158	151	257			795		
	159	158	261					
	172	172	286					
	175	175	436					
	180	183	459					
	183	209	492					
	184	210	496					
	209	225	538					
	210	237	566					
	212(2)	243	583					
	225	291	600					
	237	341	673					
	243	353	762					
	257	408	778					
	291	436						
	341	458						
	353	459						
	408	486						
	436	490						
	458	492						
	459	496						
	492	516						
	496	524(1,2,3)						
	516	530						
	530	531						
	538	566						
	540	583						
	566	590						
	582	600						
	583	762						
	584	778						
	590	793						

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance 600 Primary Task: Time (cont'd) 673 762 778 793 795 799	595 600 615 643 648(5.4) 673 762 778 793 795 799	795						
Performance 8 Primary Task: Position 23 65 95 109(1) 117 130(1) 151 158 159 175 180 183 184 209 210 212(2) 225 231 237 240 243 257 268 314(1,2) 341 344 353	5(1,3) 8 13 15 16 23 65 95 109(1) 117 130(1) 151 158 159 175 180 183 184 209 210 212(2) 225 231 237 240 243 257 268 314(1,2) 341 344 353	5(1,3) 8 13 15 16 23 65 102 109(1) 115 130(1) 151 158 175 183 187 209 210 225 231 237 240 243 268 314(1,2) 341 344 428 429	15 16 65 101 102 175 183 184 198 209 212(2) 225 240 257 261 286 314(1,2) 436 459 492 496 538 566 583 600 673 762 778	5(1,3) 225 583 600	102	8 95 180 183 184 209 212(2) 240 286 344 409 459 496 583 762 793 795	180 183 225 762	

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	367	436						
Primary	408	458						
Task:	409	459						
Position	428	486						
(cont'd)	429	492						
	436	496						
	458	516						
	459	518(2)						
	492	521						
	496	524(1,2,3)						
	516	530						
	518(2)	531						
	530	532						
	532	566						
	538	583						
	540	590						
	566	600						
	582	621						
	583	762						
	584	778						
	590	793						
	595	795						
	600							
	615							
	643							
	648(5.4)							
	669							
	673							
	762							
	778							
	793							
	795							
	799							
Performance	5(2,3)	5(2,3)	15	5(2,3)	102	8	180	
Primary	8	8	16	225		180	183	
Task:	13	13	101	583		183	225	
Event	15	15	102	600		184	762	
	16	16	175			209		
	23	23	183			212(2)		
	32	32	184			286		
	33	33	198			344		
	40	40	209			409		
	53(1)	53(1)	212(2)			496		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Event (cont'd)	117	102	225			583		
	130(1)	130(1)	257			762		
	158	158	286			793		
	159	175	314(1,2)			795		
	175	183	436					
	180	209	492					
	183	210	496					
	184	225	538					
	209	231	583					
	210	237	600					
	212(2)	243	673					
	225	268	762					
	231	291	778					
	237	314(1,2)						
	243	353						
	257	408						
	268	409						
	291	428						
	314(1,2)	436						
	344	458						
	353	492						
	408	496						
	409	516						
	428	518						
	436	521						
	458	524(1,2,3)						
	492	530						
	496	531						
	516	532						
	518(2)	583						
	530	590						
	532	600						
	538	610						
	540	621						
	582	762						
	583	778						
	584	793						
	590	795						
	595							
	600							
	601							
	610							
	615							
	643							
	648(5.4)							

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	673							
Primary Task:	762							
Event (cont'd)	778							
	793							
	795							
	799							
Performance	8	3	175	225		8	183	
Normal	73	73	183	583		183	225	
Secondary Task:	158	158	184	600		184	762	
Time	175	175	209			209		
	183	183	212(2)			212(2)		
	184	209	225			344		
	209	210	436			459		
	210	225	459			583		
	212(2)	237	583			762		
	225	243	600			793		
	237	268	673			795		
	243	291	762					
	268	109(2)	778					
	291	408						
	109(2)	436						
	344	458						
	408	459						
	436	524(1,2,3)						
	458	583						
	459	600						
	540	762						
	583	778						
	595	793						
	600	795						
	673							
	762							
	778							
	793							
	795							
Performance	8	8	175	225		8	183	
Normal	158	158	183	583		183	225	
Secondary Task:	175	175	184	600		184	762	
Position	183	183	209			209		
	184	209	212(2)			212(2)		
	209	210	225			344		
	210	225	436			496		
	212(2)	237	496			583		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	225	243	583			762		
Normal	237	268	600			793		
Secondary	243	408	673			795		
Task:	268	436	762					
Position	344	458	778					
(cont'd)	408	496						
	436	524 (1,2,3)						
	458	583						
	496	600						
	540	762						
	583	778						
	595	793						
	600	795						
	673							
	762							
	778							
	793							
	795							
Performance	8	8	175	225		8	183	
Normal	23	23	183	583		183	225	
Secondary	158	115	184	600		184	762	
Task:	175	158	209			209		
Event	183	175	212 (2)			212 (2)		
	184	183	225			344		
	209	209	436			459		
	210	210	459			496		
	212 (2)	225	496			583		
	225	237	583			762		
	237	243	600			793		
	243	268	673			795		
	268	291	762					
	291	408	778					
	344	436						
	408	458						
	436	459						
	458	496						
	459	524 (1,2,3)						
	496	583						
	540	600						
	583	762						
	595	778						
	600	793						
	673	795						
	762							

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Normal Secondary Task: Event (cont'd)	778 793 795							
Performance Artificial Secondary Task: Time	13 15 16 41 151 243 268 314(1,2) 357 367 407(1) 492 518(2) 538 540 566 590 669 673 793	13 15 16 41 102 151 187 243 268 314(1,2) 357 367 407(1) 452 492 518(2) 566 590 590 793	15 16 101 102 314(1,2) 407(1) 492 538 566 673	102		357 407(1) 793		
Performance Artificial Secondary Task: Position	151 243 492 538 540 566 673	102 151 243 452 492 566	102 492 538 566 673		102			
Performance Artificial Secondary Task: Event	15 16 41 243 268 314(1,2) 357	15 16 41 102 115 187 243	15 16 102 314(1,2) 407(1) 492 538	583	102	357 407(1) 583 793		

FAR-25 WORKLOAD FACTOR 4c: DEGREE OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	407(1)	268	583					
Artificial	492	314(1,2)	673					
Secondary Task:	518(2)	357						
Event	532	407						
(cont'd)	538	452						
	540	486						
	583	490						
	590	492						
	648(5.4)	518(2)						
	669	531						
	673	532						
	793	583						
		590						
		793						



FAR-25 WORKLOAD FACTOR 44: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
NASA BiPolar Scale	95 268	268				95		
WCI/TE	64 367	64 367		64	64	64	64	
Modified Cooper-Harper	65 159 183 225 367 496 509 583 762 778 799	65 183 225 367 496 509 583 762 778	65 183 225 496 583 762 778	225 583		183 496 583 762	183 225 762	
Inter-views	180 215 225 291 509 672 673 742 762 778	235 291 509 672 742 762 778	225 672 673 742 762 778	225		180 672 742 762	180 225 672 762	
Surveys	180 183 215 509 597 672	183 509 597 672	183 597 672			180 183 672	180 183 672	

FAR-25 WORKLOAD FACTOR 44: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICA- BILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Subjective Measures	40	40	67	98		183	67	
	67	67	98	225		217	183	
	93	93	183	583		240	225	
	98	98	225			583	672	
	109(1,2)	109(1,2)	240			672	762	
	158	158	583			742		
	159	183	672			762		
	183	217	673					
	217	225	742					
	225	237	762					
	237	240						
	240	291						
	291	367						
	367	509						
	509	583						
	583	672						
	616	742						
	669	762						
	672							
	673							
	742							
	762							

FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Body Fluid	408 615 616	408						
Brain Activity	72 237 736	72 237						
Heart	67 184 217 291 367 408 469 614 615 669 736 742 743 747 758 760 778	67 217 291 367 408 614 742 758 760 778	67 184 261 742 758 760 778			184 217 742 758 760	67	
Lung	367 469 566 669 736 742	367 566 742	566 742			742		
Muscle	469 669 736		261					
Vision	72 209 210 367 669 670	72 209 210 367 452	209			209		
Voice	469							

**FAR-25 WORKLOAD FACTOR 4d: DURATION OF PHYSICAL**

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Other Physiological	159 240 614 736	240 614	240			240		

FAR-25 WORKLOAD FACTOR 44: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance Primary Task: Time	40	40	65	225		180	180	
	65	65	183	583		183	183	
	72	72	184	600		184	225	
	158	158	209			209	762	
	159	183	225			496		
	180	209	257			583		
	183	210	261			762		
	184	225	496					
	209	237	566					
	210	291	583					
	225	408	600					
	237	458	673					
	257	496	762					
	291	529	778					
	408	566						
	458	583						
	496	600						
	528	762						
	529	778						
	566							
	583							
	600							
	615							
	673							
	762							
	778							
	799							
Performance Primary Task: Position	65	65	65	225		95	180	
	95	109(1)	183	583		180	183	
	109(1)	158	184	600		183	225	
	158	183	209			184	762	
	159	209	225			209		
	180	210	240			240		
	183	225	257			496		
	184	237	261			583		
	209	240	496			762		
	210	268	566					
	225	367	583					
	237	408	600					
	240	458	673					
	257	496	762					
	268	566	778					
	367	583						
	408	600						

FAR-25 WORKLOAD FACTOR 44: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	458	762						
Primary	496	778						
Task:	566							
Position	583							
(cont'd)	600							
	615							
	669							
	673							
	762							
	778							
	799							
Performance	40	40	183	225		180	180	
Primary	158	158	184	583		183	183	
Task:	159	183	209	600		184	225	
Event	180	209	225			209	762	
	183	210	257			496		
	184	225	496			583		
	209	237	583			762		
	210	268	600					
	225	291	673					
	237	408	762					
	257	458	778					
	268	496						
	291	583						
	408	600						
	458	762						
	496	778						
	583							
	600							
	615							
	673							
	762							
	778							
	799							

FAR-25 WORKLOAD FACTOR 44: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	109(2)	109(2)	183	225		183	183	
Normal	158	158	184	583		184	225	
Secondary	183	183	209	600		209	762	
Task:	184	209	225			583		
Time	209	210	583			762		
	210	225	600					
	225	237	673					
	237	268	762					
	268	291	778					
	291	408						
	408	458						
	458	583						
	583	600						
	600	762						
	673	778						
	762							
	778							
Performance	158	158	183	225		183	183	
Normal	183	183	184	583		184	225	
Secondary	184	209	209	600		209	762	
Task:	209	210	225			496		
Position	210	225	496			583		
	225	237	583					
	237	268	600					
	268	408	673					
	408	458	762					
	458	496	778					
	496	583						
	583	600						
	600	762						
	673	778						
	762							
	778							
Performance	158	158	183	225		183	183	
Normal	183	183	184	583		184	225	
Secondary	184	209	209	600		209	762	
Task:	209	210	225			496		
Event	210	225	496			583		
	225	237	583			762		
	237	268	600					
	268	291	673					
	291	408	762					
	408	458	778					

FAR-25 WORKLOAD FACTOR 44: DURATION OF PHYSICAL

MEASURE	VALIDITY			RELIABILITY				APPLICABILITY
	CONTENT	CONSTRUCT	PREDICTIVE	TEST RETEST	SPLIT HALF	ALTERNATE FORMS	INTER RATER	
Performance	458	496						
Normal	496	583						
Secondary Task:	583	600						
Event	600	762						
(cont'd)	673	778						
Performance	762							
Artificial	778							
Secondary Task:	268	268	566					
Time	367	367	673					
Performance	566	452						
Artificial	669	566						
Secondary Task:	673							
Position								
Performance	566	452	566					
Artificial	673	566	673					
Secondary Task:								
Position								
Performance	268	268	583			583		
Artificial	583	452	673					
Secondary Task:	669	583						
Event	673							



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